#### **ENVIRONMENTAL HEALTH & SAFETY**

UNIVERSITY of WASHINGTON

# UNIVERSITY OF WASHINGTON SELECTING OFFICE ERGONOMIC FURNITURE AND EQUIPMENT

July 2018





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## Additional Help

If you need additional assistance in identifying ergonomic issues with your workstation, or in selecting ergonomic equipment, contact ehsergo@uw.edu or the EH&S Occupational Safety and Health Office at 206.543.7388.



## INTRODUCTION

University of Washington employees who work in offices need to have a workstation that allows them to be productive, comfortable and not be susceptible to pain or injury. Slight adjustments may be all that is needed to improve an existing workstation for an individual. Consult the Environmental Health and Safety (EH&S) <u>ergonomics website</u> and "UW Computer Workstation Adjustment Guidelines" document for help in adjusting chairs and other workstation components, maintaining correct posture, and general workstation use.

If you determine that a different or new chair or component may be needed to correct deficiencies in your workstation, follow these steps:

- 1. Review the information in this document for guidance and procedures in selecting the proper ergonomic furniture and equipment for your individual needs.
- 2. Visit the UW Access Technology Center (ATC) on campus to try out and identify a chair or other workstation component. An appointment is not necessary. There will be no one in the ATC to assist you. However, you can log onto computers at the ATC to access vendor/product information and chair adjustment videos (also links in tables below). Items in the ATC should be tagged with names of manufacturer, model and vendor. The ATC should have all of the chairs listed in the tables below. Other furniture and components listed below may not all be available at the ATC to try out.

Mary Gates Hall, Room 064 Monday – Friday, 8:00 AM – 5:00 PM atcenter@uw.edu or 206.685.4144

- 3. For chairs, contact the vendor representative to request a loaner chair to test at your workstation for one week before you and your department decides to make a purchase.
- 4. After testing, the loaner chair must be returned to the vendor. The vendor will invoice the department, and if the chair is preferred, the department will make payment to purchase the chair. Allow 4 to 6 weeks delivery.
- 5. If more information is needed or you want to request an ergonomic assessment of your workstation, contact EH&S at <a href="mailto:ehsergo@uw.edu">ehsergo@uw.edu</a> or 206.543.7388.



## **ERGONOMIC OFFICE CHAIRS**

Commonly used ergonomic chairs used at UW are listed in the tables below with descriptions and adjustment options for each chair. Vendor web site links to instructions for adjusting the chair are provided in the table. The links can also be accessed at the ATC computers.

For further information about chairs, contact EH&S ehsergo@uw.edu or at 206.543.7388.

Note: If you have an ergonomic chair that was purchased within the past 5 years and it does not work properly, you may be able to replace the malfunctioning part at no charge. The UW purchasing agreement with ergonomic chair vendors includes a 5-year warranty on parts.

#### **Chair Adjustment Features**

Ideally, individuals should have a chair with sufficient adjustment features so that it can be adjusted for optimum comfort. Chairs may have all or some of the common adjustment features listed below. Adjustment should be made after first selecting a comfortable chair in the proper size. Chair sizes include petite/small, standard/regular, large/plus, and bariatric. The most adjustable chairs listed in the tables below and at the ATC are models manufactured by Neutral Posture, BodyBilt and ErgoCentric.

Some chairs are designed with built-in flexibility that allows for slight rocking back and forth; other chairs are inflexible and do not allow rocking.

Chair adjustment features include:

- Chair height
- Seat pan depth
- Seat pan tilt
- Chair back height
- Chair back tilt
- Lumbar support

- Armrest height
- Armrest inward/outward
- Armrest pivot inward/outward
- Armrest forward/backward
- Armrest pivots 360°

# Commonly Used Ergonomic Chairs at the UW

\$509  Steelcase Criterio	Amia: \$509 to \$521	Open Square Sherry Napier, UW Account Manager Cell Phone: 206-972-2919 Voicemail: 206-768-7881 Email: SNapier@opensq.com	<ul> <li>Fabric covered back and seat</li> <li>Seat cushion with moderate thickness</li> <li>Rocking motion</li> </ul>	Standard only	http://www.steel case.com/produc ts/office- chairs/amia/#fea tures videos	<ul> <li>Depth 2" to 3"</li> <li>Flexible front edge</li> </ul>	Height     Inward / outward     Pivot inward / outward     Forward / backward	Rocking motion with back stops to limit rocking distance	Horizontal pad in chair back adjusts up / down to support curve in lower back
							ii		
	iterion: 550 to \$922	Open Square Sherry Napier, UW Account Manager  Cell Phone: 206-972-2919  Voicemail: 206-768-7881  Email: SNapier@opensq.com	Older and updated models exist     Fabric covered back and seat     Seat cushion with moderate thickness	• Standard • Plus (large)	Video demonstrates a newer model Criterion chair. https://www.you tube.com/watch ?v=Yz46lcrobDI	Depth 2" to 3"     Seat pan tilt	Height     Inward / outward     Pivot inward / outward	Height     Reclining motion with back stops to limit amount of recline	Provided as back adjusts up / down

Steelcase Leap  Open Square Sherry Napier, Account Mana Cell Phone: 206-972-29 Voicemail: 206-768-78 Email: SNapier@c sq.com	Seat cushion with thin amount of cushion	• Standard • Plus (large)	https://www.ste elcase.com/prod ucts/office- chairs/leap/#feat ures videos	<ul> <li>Depth 2" to 3"</li> <li>Flexible front edge</li> </ul>	Height     Inward / outward     Pivot inward / outward     Forward / backward	Reclining motion with back stops to limit amount of recline     Recline motion tension     Lower back support tension	Horizontal pad in chair back adjusts up / down to support curve in lower back
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Chair	EProcurement Order Number, Price	UW Preferred Vendor and Contact Information	Description	Sizes	Chair Adjustment Instructions	Seat Pan Adjustment	Armrest Adjustment	Back Adjustment	Lumbar Support Adjustment
Herman Miller Aeron	AE113AWB, B-Size: \$759	Catalyst Workplace Activation (Changed from Business Interiors NW) Claire Sander  Account Coordinator  Phone: 206-615- 9276  Email: csander@catalystac tivation.com	Mesh back and mesh seat pan     Rocking motion, with tension and back stop adjustment	Small (A)     Regular (B)     Large (C)	Refer to bottom of page: https://www.her manmiller.com/p roducts/seating/ office-chairs/aeron-chairs/product-details/	No. Depth is fixed.     Select seat pan by selecting small, regular, or large chair size	Height Pivot inward outward Forward / backward	Reclining motion with back stops to limit amount of recline     Forward and back seat rock / recline	Lumbar support added to back of chair     Adjust for comfort
Herman Miller Mirra 2		Catalyst Workplace Activation (Changed from Business Interiors NW) Claire Sander  Account Coordinator  Phone: 206-615-9276  Email: csander@catalystac tivation.com	"Butterfly" or Triflex ventilated back     Rocking motion, with tension and back stop adjustment	One size fits all	Refer to bottom of page: https://www.her manmiller.com/p roducts/seating/office-chairs/mirra-2-chairs/product-details/	Front edge fold adjustment to shorten seat	Height     Inward / outward     Pivot inward / outward     Forward / backward	Reclining motion with back stops to limit amount of recline     Forward and back seat rock / recline	Adjusts up / down Adjusts In / out

Chair	EProcurement Order Number, Price	UW Preferred Vendor and Contact Information	Description	Sizes	Chair Adjustment Instructions	Seat Pan Adjustment	Armrest Adjustment	Back Adjustment	Lumbar Support Adjustment
Knoll Generation	Generation: \$607	Systems Source Kristy Whitney  Account Sales Manager  Phone: 206-285-2208 X231  Email: uwrequest@syste msource.com	Plastic mesh back with fabric covered seat pan     Fully flexible back and top to allow for stretching	One size fits all	Refer to bottom right of page: https://www.kno ll.com/product/g eneration-by-knoll%3Fsection= Design?pu=1353 011707721	Depth     Flexible seat     pan tilts 107°	<ul> <li>Height</li> <li>Inward / outward</li> <li>Pivot inward / outward</li> <li>Forward / backward</li> </ul>	Reclining motion with back stops to limit amount of recline	Horizontal plastic support adjusts up / down
Knoll ReGeneration		Systems Source Kristy Whitney  Account Sales Manager  Phone: 206-285-2208 X231  Email: uwrequest@syste msource.com	Plastic mesh back with fabric covered seat pan Flex back design	One size fits all	Refer to bottom of page: https://www.kno Il.com/product/r egeneration-by- knoll?section=de sign&pu=135301 1673417	Depth     Flexible seat pan tilts 107°	Height     Inward / outward     Pivot inward / outward     Forward / backward	Reclining motion with back stops to limit amount of recline	No separate lumbar adjustment

Chair	EProcurement Order Number, Price	UW Preferred Vendor and Contact Information	Description	Sizes	Chair Adjustment Instructions	Seat Pan Adjustment	Armrest Adjustment	Back Adjustment	Lumbar Support Adjustment
ErgoCentric AirCentric		Keeney's Office Supply / Office Interiors Jill Cooper • Program Manager • Phone: 425-285- 0549 jillc@keeneys.com	<ul> <li>Ventilated back</li> <li>Seat cushion with moderate thickness</li> <li>Standard and tall back</li> </ul>	Small     Standard / large	Synchro-Glide mechanism: http://www.ergo centric.com/reso urce/synchro- glide  Multi-Tilt mechanism: http://www.ergo centric.com/reso urce/multi-tilt	<ul><li>Depth</li><li>Seat pan tilt</li></ul>	Height     Rotate in 360°.     Equivalent to inward /outward and pivot inward / outward.     Can rest forearms on armrests with upper arms relaxed	Height     Adjust with glide mechanism	Adjusts with height of back     Has inflatable lumbar pillow for further support
ErgoCentric GeoCentric	EISGEOMBMT2: \$525	Keeney's Office Supply / Office Interiors Jill Cooper • Program Manager • Phone: 425-285- 0549 jillc@keeneys.com	<ul> <li>Fabric covered back and seat pan</li> <li>Seat cushion with moderate thickness</li> <li>Contoured seat options</li> </ul>	Small     Standard / large	Synchro-Glide mechanism: http://www.ergo centric.com/reso urce/synchro- glide  Multi-Tilt mechanism: http://www.ergo centric.com/reso urce/multi-tilt	Depth     Seat pan tilt	Height     Rotate in 360°.     Equivalent to inward /outward and pivot inward / outward.      Can rest forearms on armrests with upper arms relaxed	Height     Adjust with ratchet mechanism	Adjusts with height of back

Chair	EProcurement Order Number, Price	UW Preferred Vendor and Contact Information	Description	Sizes	Chair Adjustment Instructions	Seat Pan Adjustment	Armrest Adjustment	Back Adjustment	Lumbar Support Adjustment
Neutral Posture 8500		Ebony Office Interiors Rhonda Weiss  Customer Service Phone: 206-762- 1676 Email: Ebony50@aol.com	Fabric covered back and seat pan     Seat cushion moderate thickness     Contoured seat options	Medium     Large	Chair adjustment for typical chairs: Select 'Task Seating" for video.  http://neutralposture.com/site/guides/	Depth     Seat pan tilt	Height     Rotate in 360°.     Equivalent to inward /outward and pivot inward / outward.     Can rest forearms on armrests with upper arms relaxed	<ul> <li>Height</li> <li>Adjust with ratchet mechanism</li> <li>Tilt</li> </ul>	Adjusts with height of back     Has inflatable lumbar pillow for further support

Chair	EProcurement Order Number, Price	UW Preferred Vendor and Contact Information	Description	Sizes	Chair Adjustment Instructions	Seat Pan Adjustment	Armrest Adjustment	Back Adjustment	Lumbar Support Adjustment
BodyBilt 2406 (Petite)		BodyBilt Toni Quande  Territory Sales Manager  Phone: 425-919-3913  TQuande@BodyBilt. com	Fabric covered back and seat pan     Seat cushion with moderate thickness	• Petite	J Style mechanism: https://www.bo dybilt.com/ergon omics/videos- chair-adjustment • Select J mechanism • Select adjuster for chair part of interest	Depth     Seat pan tilt	Height     Rotate in 360°.     Equivalent to inward /outward and pivot inward / outward.     Can rest forearms on armrests with upper arms relaxed	Height     Adjust with ratchet mechanism     Tilt	Adjusts with height of back
BodyBilt 2507 (Regular / Standard)		BodyBilt  Toni Quande  Territory Sales Manager  Phone: 425-919-3913  TQuande@BodyBilt. com	Fabric covered back and seat pan     Seat cushion with moderate thickness     Contoured seat pan	Standard	J Style mechanism: https://www.bo dybilt.com/ergon omics/videos- chair-adjustment • Select J mechanism • Select adjuster for chair part of interest	Depth     Seat pan tilt	Height     Rotate in 360°. Equivalent to inward /outward and pivot inward / outward.     Can rest forearms on armrests with upper arms relaxed	Height     Adjust with ratchet mechanism     Tilt	Adjusts with height of back

Chair	EProcurement Order Number, Price	UW Preferred Vendor and Contact Information	Description	Sizes	Chair Adjustment Instructions	Seat Pan Adjustment	Armrest Adjustment	Back Adjustment	Lumbar Support Adjustment
BodyBilt AirCelli		BodyBilt Toni Quande  Territory Sales Manager  Phone: 425-919-3913  TQuande@BodyBilt. com	Mesh back and fabric covered seat pan     Seat cushion with moderate thickness     Frame for chair back may force head forward in uncomfortable posture	Standard	J Style mechanism: https://www.bo dybilt.com/ergon omics/videos- chair-adjustment • Select J mechanism • Select adjuster for chair part of interest	<ul><li>Depth</li><li>Seat pan tilt</li></ul>	Height     Rotate in 360°.     Equivalent to inward /outward and pivot inward / outward.     Can rest forearms on armrests with upper arms relaxed	Height     Adjust with ratchet mechanism	Adjusts with height of back

Chair	EProcurement Order Number, Price	UW Preferred Vendor and Contact Information	Description	Sizes	Chair Adjustment Instructions	Height Adjustment	Foot Support Ring	Seat Pan Adjustment	Back Adjustment	Lumbar Support Adjustment
BodyBilt J707 Stool		BodyBilt Toni Quande  Territory Sales Manager  Phone: 425-919-3913  TQuande@BodyBil t.com	<ul> <li>Good option for a lab and reception desk</li> <li>Cleanable fabric covers back and seat pan</li> <li>Seat cushion with moderate thickness</li> </ul>	Standard     Can     customize     seat sizes	J Style mechanism: https://www. bodybilt.com/ ergonomics/vi deos-chair- adjustment • Select J mechanism • Select adjuster for chair part of interest	Can adjust height for sitting at:  Lab bench or reception desk Sitting with feet on the floor	Foot ring has cutout to allow sitting with feet on the floor     Option: Wide non-slip foot ring for improved foot support for small users	• Depth	Height –     Ratchet     system	Adjusts with back height



# SIT/STAND WORKSTATION OPTIONS

Adjustable height computer workstation options include adjustable height tables, adjustable height platforms that are placed on top of the table, and adjustable height stations with a keyboard tray that extends below the table top.

#### Adjustable Height Tables

Considerations for selecting an adjustable height table are the following:

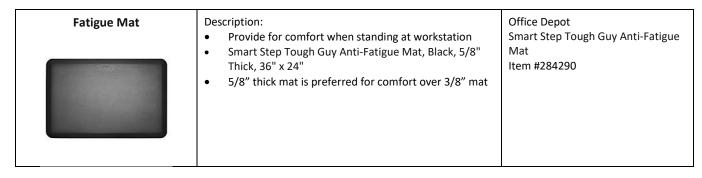
- A standard computer workstation table has a fixed height of 29" to 30" above floor level and smaller users are provided with an adjustable keyboard tray for using the keyboard and mouse.
- Adjustable height tables are usually used without a keyboard tray when sitting. The lower range for the height adjustment of a table should be sufficiently low to match the height at which the keyboard tray is adjusted and used for comfort. The "sitting elbow height" for small users can be 22" to 24" and the table should be able to accommodate this height.
  - Note: Less expensive height adjustable tables are typically designed with the lowest height at 28" to 30".
- The depth of the table top should be at least 30" to accommodate the keyboard/mouse at the front edge of the table and the computer monitors toward the back edge of the table. The monitor should be at arm's length distance away from the user for viewing comfort.
- The electric motor option is suggested for ease of adjustment.

## Adjustable Height Tables

Manufacturer / Model	UW Preferred Vendor/ Contact Information	Model/Description	Adjustment Mechanism	Height Adjustment	Table Top Options	Load Capacity
Steelcase Details Airtouch	TECHNICAL SUPPORT  Name: Sherry Napier Title: Phone: 206-768-7881 Email: snapier@open-sq.com  CUSTOMER SERVICE Name: Ann Rogers Title: Client Service Coordinator Email: arogers@open-sq.com  CUSTOMER SERVICE Name: Kevin Varney Title: Workspace Consultant Email: kvarney@open-sq.com	Product Information:  http://www.steelcase.com/products/height-adjustable-desks/airtouch/	Counterbalance mechanism	Minimum to maximum height range: 26" to 43"	Rectangular surface:  Depth: 22.25", 28.25"  Width: 40:, 46", and 58"  Recommend table depth of at least 28" to 30"	Up to 150 lbs.
Steelcase Series 5	TECHNICAL SUPPORT  Name: Sherry Napier Title: Phone: 206-768-7881 Email: snapier@open-sq.com  CUSTOMER SERVICE Name: Ann Rogers Title: Client Service Coordinator Email: arogers@open-sq.com  CUSTOMER SERVICE Name: Kevin Varney Title: Workspace Consultant Email: kvarney@open-sq.com	Product Information:  https://www.steelcase.com/products/height-adjustable-desks/series-5/  Table legs and adjustment mechanism can be purchased separately and installed on an existing table	Electric Motor  Control has up and down button  Adjustment speed: 1.7" per second	Minimum to maximum height range: 25.5" to 52"	Work surface options:  Rectangular Corner Corner with left or right extension Recommend table depth of at least 28" to 30"	Up to 195 lbs.

Manufacturer / Model	UW Preferred Vendor/ Contact Information	Model/Description	Adjustment Mechanism	Height Adjustment	Table Top Options	Load Capacity
Steelcase Series 7	TECHNICAL SUPPORT Name: Sherry Napier Title: Phone: 206-768-7881 Email: snapier@open-sq.com  CUSTOMER SERVICE Name: Ann Rogers Title: Client Service Coordinator Email: arogers@open-sq.com  CUSTOMER SERVICE Name: Kevin Varney Title: Workspace Consultant Email: kvarney@open-sq.com	Description:  Table adjustment by electric motor  Table legs and adjustment mechanism can be purchased separately and installed on an existing table  Table depth sizes: 23" or 29" deep by 34" to 78" wide  Height range 24" to 52"  Weight capacity 295 lbs.  Product Information:  https://www.steelcase.com/products/height-adjustable-desks/series-7/	Electric motor  3 options:  Up and down button  3 position heights  3 position heights with digital display  Adjustment speed: 1.7" per second	Minimum to maximum height range: 24.25" to 52"	Work surface options:  Rectangular Corner Corner with left or right extension Recommend table depth of at least 28" to 30"	Up to 295 lbs.
ErgoCentric upCentric 2-Leg Height Adjustable Table	Keeney's Office Supply / Office Interiors  Jill Cooper  Program Manager  Phone: 425-285-0549 (Cell)  jillc@keeneys.com	Description:  Table adjustment by electric motor  Table legs and adjustment mechanism can be purchased separately and installed on an existing table  Table depth sizes: 22" or 30" deep  Height range 21.6" to 47.9"  Weight capacity 300 lbs.  Product Information:  http://www.ergocentric.com/product-category/height-adjustable-tables	Electric motor  4 position heights with digital display Adjustment speed: 1.6" per second	Minimum to maximum height range: 21.6" to 47.9"	Work surface options:  Rectangular with range of  • 24" deep to 46" wide  • 42" deep to 96" wide  Recommend table depth of at least 28" to 30"	Up to 300 lbs.

#### Accessories





#### Height Adjustable Platform on Top of a Table

Considerations for selecting an adjustable height platform are the following:

- A standard computer workstation table is 29" to 30" above floor level. Shorter users must be provided with an adjustable keyboard tray when sitting and using the keyboard and mouse. Since an adjustable platform is placed on top of the table, a keyboard and mouse will continue to be needed when sitting.
- The platform will be raised when a user prefers a standing posture.
- Computer monitors with adjustable stands (height and tilt adjustment features) are freely placed on the workstation platform in the preferred locations and adjusted for viewing comfort.
- Adjustable keyboard tilt preferred rather than flat use only.
- If provided with a monitor arm: Monitors can be tilted toward/away from user; two monitors can be placed in a V-pattern; preferable that monitors can be adjusted on the arm in portrait or landscape mode.

Manufacturer / Model	UW Preferred Vendor/ Contact Information	Model/Description	Description	Keyboard Platform	Monitor	Load Capacity
Varidesk Pro Plus 36	Information and purchase is available directly from Varidesk:  • <a href="https://www.varidesk.com">https://www.varidesk.com</a> • <a href="Phone: 800-207-2587">Phone: 800-207-2587</a> (Option 2: Customer Service)  Varidesk Standing Desk Solution Pro Plus 48: Cost on various websites: \$495 plus shipping  Options available for 60" platform and for corner desks.	Product Information: http://www.steelcase.com/products/heig ht-adjustable-desks/airtouch/  Unit is placed on top of table or desk Holds two adjustable height computer monitors  Computer monitors (with adjustable height feature are preferred) are placed on upper platform for monitors.  If user needs keyboard height to be below table or desk height while sitting: Need adjustable keyboard tray mounted to table or desk  Options available / Not at the Access Technology Center:  ProPlus 48" Exec 40"  Cube Corner 36" and Cube Corner 48	Stable on table     Platform for documents below monitor     May require leaning and reaching to raise/lower	Sits flat on top of table when used in sitting position Keyboard platform height: 1" above table height Platform holds keyboard and mouse	Place adjustable monitors on monitor platform  Holds dual monitors  Size of dual monitors: No limitation  Adjustable tilt  Can place in V-pattern	Up to 35 lbs.

Manufacturer / Model	UW Preferred Vendor/ Contact Information	Model/Description	Description	Keyboard Platform	Monitor Use	Load Capacity
iMovr Ziplift Standing Desk Converter plus EverMat standing mat	Information and purchase is available directly from iMovr:  • <a href="https://www.imovr.com">https://www.imovr.com</a> • <a href="https://www.imovr.com">Phone: 844-366-8748</a> • <a href="mailto:Bellevue@SitLess.com">Email:Bellevue@SitLess.com</a> • <a href="mailto:Demo Showroom">Demo Showroom</a> <a href="mailto:14100">14100</a> NE 20th St, Suite 203 <a href="mailto:Bellevue">Bellevue</a> , WA 98007  iMovrZiplift: \$379 plus shipping	Product Information:  • <a href="http://www.imovr.com/imovr-ziplift-standing-desk-converter.html">http://www.imovr.com/imovr-ziplift-standing-desk-converter.html</a> • Unit is placed on top of table or desk  • Holds two adjustable height computer monitors  • Can hold monitors on monitor arm.  • If user needs keyboard height to be below table or desk height while sitting: Need adjustable keyboard tray mounted to table or desk	Stable on table     Platform for documents below monitor     Has piston assist: Easy to raise/lower height	Sits flat on top of table when used in sitting position  Keyboard platform height: 1" above table height  Platform has negative tilt: Up to 15°  Platform holds keyboard and mouse	Place adjustable monitors on monitor platform  Holds dual monitors  Size of dual monitors: No limitation  Adjustable tilt  Can place in V-pattern	Up to 35 lbs.



#### Adjustable Height Station with Keyboard Tray below Table

Considerations for selecting an adjustable height station with a keyboard tray that extends below the table top are the following:

- The computer monitor(s) are mounted to a post. The mounting mechanism may or may not include adjustment features that allow the monitor to be tilted upward (top edge is pushed away and bottom edge is pulled toward the user) or inward so the monitors can be used in a V-pattern for viewing comfort.
- If the workstation allows for the use of two computer monitors, the mounting mechanism may limit the size of monitors that can be used. If a monitor is upgraded, the new monitor is oftentimes larger and the mounting bracket may not accommodate the larger size.
- A larger computer monitor is usually heavier. The workstation may become top heavy and the workstation may "bounce" rather than remain stable during keyboard use with an increase in monitor weight.

Manufacturer / Model	UW Preferred Vendor/ Contact Information	Model/Description	Description	Keyboard Platform	Monitor	Load Capacity
TaskMate Go Dual Monitor Standing Desk, Model 6300	Various vendors on web sites.  6350 TaskMate Go with Dual Monitor Arm: Cost on various web sites: \$483 plus shipping	Product Information:  • https://healthpostures.com/wp-content/uploads/2013/01/TaskmateGo-Specs.pdf  • Unit is clamped to the top of table or desk: Desk must be minimum of 0.875" and maximum of 2" thickness  • Holds two computer monitors  • Monitors can be mounted vertically on post at 2" increments	Stable on table     Document platform below monitor and 6.5" above keyboard platform     Easy to adjust between sitting and standing     Height range for monitors: Minimum of 23.5" and maximum of 41.5" above table	Keyboard platform height adjusts below table for sitting use: Up to 4" below table height     Platform tilt: 0°, 5°, and 10° negative tilt     Keyboard platform 19" wide with separate mouse platform	Monitors mounted to post.  Holds dual monitors  Maximum size of dual monitors: 24"  Adjustable tilt  Mounted in V-pattern	Up to 35 lbs.

Manufacturer / Model	Model/Description	UW Preferred Vendor/ Contact Information
Ergotron WorkFit S	Option to hold one or two monitors  Description:      Unit clamps to desk     Designed for one or two monitors     Monitors are mounted to a post. Monitor tilt is fixed and angle between dual monitors is fixed     Adjusts up/down to stand/sit     Keyboard tray extends below table top when used in sitting position.     Has built-in document holder.     Some report that unit is not stable when typing especially the user is a heavy typists  Option available / Not at the Access Technology Center:     WorkFit T, Sit-Stand Desktop Workstation	Keeney's Office Supply / Office Interiors Jill Cooper Program Manager Phone: 425-285-0549 (Cell) iillc@keeneys.com  UW EProcurement Price: Item #ERG33350200: \$677

# **KEYBOARD OPTIONS**

The keyboard options shown below are alternatives to standard rectangular keyboards.

Item	Model/Description	No Preferred Vendor
Microsoft Natural Ergonomic Keyboard 4000	<ul> <li>Description:         <ul> <li>Arched and angled ergonomic design promotes more neutral wrist posture</li> <li>Wide built-in wrist rest at bottom of keyboard</li> </ul> </li> <li>Keyboards require higher amount of finger pressure to press keys compared to other keyboards which may increase stress to smaller users.</li> <li>Keyboard is wide which contributes to a increased reach during right hand mouse and is better suited for users with wide shoulders</li> </ul>	Online Price: Keyboard: \$35 to \$43
Kinesis Freestyle 2 Keyboard Model:KB8000PBUS	Description  Keyboard can be split into two parts and be used side-by-side for a user with wide shoulders.  Keyboard can open to a V pattern for more neutral wrist and hand posture.  Detached numeric pad allows for reduced distance reached to use the mouse  Has optional kit for wrist rest	Online Price: Keyboard: \$89 to \$111 VIP3 Accessory Kit: \$40 Numeric Pad: \$36 to \$49
Numeric Pad SKU: AC800HPB-us	Shown with optional VIP3 accessory  Has optional kit to create tilted tent design	
Microsoft® Sculpt Ergonomic Desktop	<ul> <li>Description:         <ul> <li>Cushioned palm rest provides support and promotes a neutral wrist position</li> </ul> </li> <li>Split keyset design aligns wrists and forearms in a natural, relaxed position</li> <li>Arched keyboard layout mimics the curved shape of the finger tips</li> <li>Domed keyboard design aligns wrists at a natural, relaxed angle</li> <li>Separate numeric pad allows for reduced distance reached to use the mouse</li> </ul>	Online Price: Keyboard, Numeric Pad, and Mouse: \$80 to \$130

# **MOUSE OPTIONS**

Item	Model/Description	No Preferred Vendor
Contour RollerMouse Red	<ul> <li>Rollermouse Red is newest model and is preferred by recent users</li> <li>Contour mouse is placed at the front edge of the keyboard. Eliminates the need to reach for the mouse at the side of the keyboard.</li> <li>One click function buttons and roller bar (scroll up/down and slide side to side) provide same functions as a standard mouse.</li> <li>Legs extend under keyboard act as keyboard risers</li> </ul>	Online Price: Rollermouse: \$265 to \$334
	Other models are available, But Rollermouse Red is newest model and is preferred by recent users  RollerMouse Free2 RollerMouse Free3 RollerMouse Pro2	
Kensington Expert Mouse Model #: K64325	Four clickers, customizable     55 mm circular ball in middle for precision     Scroll ring for scanning page	Online Price: Trackball: \$59 to \$89

Item	Model/Description	No Preferred Vendor
Evoluent VerticalMouse 4  Model VM4R  Right Handed, Regular Size Fits medium to large hand Available in right and left handed models  Model VM4S Right Handed, Small Size Fit small hand Available in right and left handed models	<ul> <li>Description</li> <li>Mouse with three buttons and a scrolling wheel on the right side.</li> <li>Places hand in vertical handshake posture</li> <li>Regular size fits medium to large sized hand</li> <li>Small size fits small to medium sized hand</li> <li>Left and right handed models</li> </ul>	Online Price: Mouse: \$81 to \$100
Hippus Handshoe, Right Handed  Different version for the right and left hand  Full support of the hand and wrist  Ergonomic control  Scroll wheel  Support for the thumb  Universal USB connection  Optical drive	<ul> <li>Unique shape: Supports the hand completely and allows the forearm to relax</li> <li>Hand rests on mouse: Design allows hand to rest on the mouse without brushing against the desk</li> <li>Small, medium and large sizes to accommodate all hand sizes</li> <li>Left and right handed models</li> </ul>	Online Price: Mouse: \$93 to \$133
Logitech M570 Wireless Trackball Mouse Item #989412	<ul> <li>Description:</li> <li>Trackball eliminates the need to move a mouse around.</li> <li>Thumb-controlled trackball controls cursor.</li> <li>Sculpted shape to conform and support the hand.</li> <li>Wireless design, requires (1) AA battery with up to 18 months of battery life.</li> <li>For Windows PCs and Macs.</li> </ul>	Online Price: Trackball: \$22 to \$24
Logitech Marble Mouse Item #851265	<ul> <li>Description:</li> <li>Trackball eliminates the need to move a mouse around.</li> <li>Finger tip controlled trackball controls cursor.</li> <li>Wire and wireless designs.</li> <li>For Windows PCs and Macs.</li> </ul>	Online Price: Trackball: \$24 to \$30

# **KEYBOARD TRAYS**

In general, a keyboard tray that allows the keyboard and mouse to be used at the same level is preferred compared to using the keyboard and mouse at different levels.

Item	Model/Description	UW Preferred Vendor/ Contact Information
Humanscale Keyboard Systems  Body Bilt EF-KT-Fluent ErgoFluent Keyboard Tray	<ul> <li>Separate platform for mouse that can adjust over the keyboard to reduce the distance reached to use the mouse</li> <li>"Dial a tilt" negative tilt adjustment feature with angle measurement.</li> <li>Lift and lock height adjustment mechanism</li> <li>Disadvantage: Using the mouse at a different level compared to the keyboard may contribute to "mousing arm" discomfort.</li> <li>Platform with adjustable slider for left and right</li> </ul>	Example of Online Price:  • Keyboard Mechanism: \$200  • Keyboard Platform: \$155
	handed mouse use  Negative tilt adjustment feature  Lift and lock height adjustment mechanism	
Steelcase Details 26" Platform	Single platform for left and right handed mouse use	
26 Platform	Lift and lock height adjustment mechanism     Separate negative tilt adjustment mechanism     Different design options to accommodate different furniture designs  Note: Prefer single level keyboard platform to avoid using the keyboard and mouse at different levels	
Radius Platform		

## **COMPUTER MONITOR RISERS**

Risers are available to place under a computer monitor to raise it when it is too low. The space under a riser can be used to store documents and materials so space directly in front of the monitors is free for holding documents in active use.

A riser with the computer monitor can be moved to any preferred position on top of the table for viewing comfort. An adjustable articulating monitor arm, if mounted at a fixed location on the desk, may prevent the computer monitor from be placed in the preferred location in front the user when using an adjustable keyboard tray that is also mounted at a fixed location on the table.

Item	Model/Description	UW Preferred Vendor/ Contact Information
3M Adjustable-Height Monitor Stand  Computer monitors, printers and laptops up to 80 lbs.	<ul> <li>Platform with adjustable height</li> <li>Height is adjusted by selecting the preferred number of extension feet to raise the platform.</li> <li>The space under the platform can be used to store documents and materials.</li> </ul>	Office Depot: Item #113616: \$32
Fellowes Designer Suites Height-Adjustable Monitor Riser With Storage Tray, 12.5"H x 5.13"W x 15.5"D, Black	Monitor riser with storage tray     The space under the platform can be used to store office supplies.	Office Depot: Item #292910: \$39

# **FOOTRESTS**

Footrests are provided when a short user raises the chair to use the computer and cannot support the feet on the floor while sitting. A short user sometimes needs to raise the chair so the arms and elbows are in the proper posture for comfort while using the keyboard and mouse.

Item	Model/Description	UW Preferred Vendor
Humanscale FM300 Foot Rest	<ul> <li>Adjustable tilt</li> <li>Metal base with wood platform</li> <li>Platform dimensions: 16" wide by deep 12" by 3-3/4" to 6-3/4" high</li> </ul>	Example of Online Price: \$89 to \$99
Fellowes Professional Series Independent Foot Support Control	<ul> <li>Adjustable tilt</li> <li>Independent platforms for left and right foot</li> <li>Sturdy plastic construction</li> <li>Platform dimensions: 16'1/4" wide by 16/1/2" deep by 4-1/2" high</li> </ul>	Office Depot Item #748185: \$74
Fellowes Ultimate Foot Support	<ul> <li>Adjustable tilt</li> <li>Sturdy plastic construction</li> <li>Platform dimensions: 17-3/4" wide by 13-1/4" deep by 4" high</li> </ul>	Office Depot Item #203605: \$60

Item	Model/Description	UW Preferred Vendor
FOX BAY FR19 TarsalRest Foot Rest	<ul> <li>Adjustable tilt</li> <li>Metal base with synthetic platform</li> <li>Platform dimensions: 19" wide by deep 12" by 3" high</li> </ul>	Example of Online Price: \$48 to \$70
Safco Height Adjustable Footrest, 5" High	<ul> <li>Adjustable tilt</li> <li>Metal base with synthetic platform</li> <li>Platform dimensions: 18-1/2" wide by 15-3/4" deep by 5" high</li> </ul>	Office Depot Item #784218: \$58
Safco Height Adjustable Footrest	<ul> <li>Adjustable height</li> <li>Metal base with synthetic platform</li> <li>Platform dimensions: 21-1/2" high by 20-1/2" wide by 14-1/2" deep</li> <li>Suitable when working at high tables such as reception desks and laboratory work benches</li> </ul>	Office Depot Item #537447: \$134

## **MONITOR ARMS**

Computer monitor arms may be needed under the following conditions:

- The computer workstation consists of a free standing table in an open work area and the monitor could fall if it is not secured.
- The employee works at a tight work surface and computer monitors on adjustable height stands occupy needed space that could be made available if the monitors were mounted on adjustable arms. In tight spaces, the arms should be mounted on moveable pedestals to accommodate the unique characteristics of each work station and the arms should fold against a wall behind the monitor to maintain a comfortable viewing distance.

Item	Model/Description	UW Preferred Vendor
Herman Miller Single Flo Monitor Arm Support	<ul> <li>Mounts with mounting bracket to table</li> <li>Height adjustment range: 13-1/4"</li> <li>Extension range: 20-5/8"</li> <li>Monitor tilt range: Upward 40° to downward 40°</li> <li>Monitor can rotate 360° between portrait and landscape position</li> <li>Arm can fold so flat against a wall to create open work space in front of the monitors</li> </ul>	UW EProcurement Price: Item #Y91171.CM: \$166
Herman Miller Dual Flo Monitor Arm Support	<ul> <li>Mounts with mounting bracket to table</li> <li>Height adjustment range: 13-1/4"</li> <li>Extension range: 20-5/8"</li> <li>Monitor tilt range: Upward 40° to downward 40°</li> <li>Monitors can rotate 360° between portrait and landscape position</li> <li>Arm can fold so monitor and arm are flat against a wall to create open work space in front of the monitors</li> </ul>	Example of Online Price: Flo Dual Monitor Arm: \$415
ErgoTron MXV Desk Dual Monitor Arm	<ul> <li>Mounts with mounting bracket to table</li> <li>Height adjustment range: 13"</li> <li>Extension range: 22"</li> <li>Monitor tilt: Upward to downward</li> <li>Monitors can rotate 360° between portrait and landscape position</li> <li>Arm can fold so monitor and arm are flat against a wall to create open work space in front of the monitors</li> </ul>	Example of Online Price: Dual Monitor Arm: \$259 to \$308  UW EProcurement Price: Single Arm Item #ERG45214026: \$190