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## Focus on Medical Devices and Commercialization

*Advancements in health care require rapid development of medical devices to keep pace. Learn to take a medical device from possible to profitable with this certificate program.*

### Design Devices that Save Lives

Medical engineers are employed in the development and operation of medical devices, systems and processes that improve quality of life. Because this industry needs people who both understand science and have professional experience, employment potential is strong. The way to be prepared to take advantage of those career opportunities is by supplementing your engineering experience with a University of Washington certificate.

The Medical Devices and Commercialization certificate will introduce you to the process of developing a new medical device, as well as how to take that device to market.

Gain the skills to:

- Design medical devices that address healthcare needs all over the world
- Manage intellectual property, regulatory affairs, and commercialization strategies
- Bridge the gap between research and development, manufacturing, and marketing/sales

### Earn a Master's Degree in Medical Engineering

The Medical Devices and Commercialization certificate is one of four programs that can be combined to earn a Master of Medical Engineering degree. This program integrates your knowledge of engineering with basic medicine and applications in biomaterials, biosensors, medical imaging, diagnostic methods, and physiological assessment.

### Fast Facts

Medical engineers design devices and imaging systems such as magnetic resonance imaging (MRI), ultrasound, insulin injection or body control systems.

### Top 10 medical device manufacturers in the Puget Sound area

1. Philips Medical Systems
2. Spacelabs Healthcare
3. Physio-Control Inc., a division of Medtronic
4. SonoSite Inc.
5. Cardiac Science Corp.
6. Ekos
7. Verathon
8. Asepticao Inc.
9. Calypso Medical Technologies
10. Confirma

## Medical Devices and Commercialization Courses

Learn to take a medical device from possible to profitable. The following courses are required for the Medical Devices and Commercialization certificate:

### Medical Device Design

This course emphasizes human factors on the design of medical devices and intellectual property in the medical device industry. You'll also examine the useful and safe design of medical devices for patients, caregivers, physicians, technicians and manufacturers. The class addresses the physical, mental and environmental constraints which affect fitting a device to the human user in workplaces ranging from clinical medical systems to emergency field use.

### Regulatory Affairs for the Medical Device Industry

Topics include U.S. and international regulations for medical devices; regulatory and clinical strategies; clinical trials; design and scale-up manufacturing; quality assurance and inspections; complaints and reporting.

### Medical Device Commercialization

Learn the practical skills and tools required to commercialize medical device technologies. Topics include identifying new business opportunities; identifying key needs through market research; entrepreneurship; developing and delivering a business plan; hiring and building a strong team; converting R&D to sales and distribution.

### About UW Extension

Learning through UW Extension gives working professionals the quality education that will take your career to the next level, whether you long for a promotion or a shift to a completely new field. All UW Extension programs are designed by UW faculty, industry experts and community leaders. To ensure you receive first-rate instruction, every UW Extension program must be approved by the corresponding University of Washington academic department. UW advisory boards are continually reviewing programs and updating the curriculum to meet the evolving demands of specific fields.


The University of Washington is one of the oldest state-supported institutions of higher education on the West Coast, and one of the preeminent research universities in the world. With nationally ranked academic excellence, facilities, and a diverse student and faculty population, the UW is a leading-edge university with global influence.

### About UW Certificate Programs

You already work hard at your existing job, and going back to school is a serious commitment. That's why UW certificate programs are designed around you, with flexible schedules and a choice of part-time, full-time or even online study, depending on the program. A UW certificate gives you the knowledge and credibility to open doors for the rest of your professional life, whether you're moving up the career ladder or switching careers altogether.

## Learn more about the program

For complete details, visit the Web site:

 [WWW.EXTENSION.WASHINGTON.EDU](http://WWW.EXTENSION.WASHINGTON.EDU)

### Attend an information meeting.

Interested in a certificate? You can ask questions and meet instructors and former students at these free meetings. For meeting dates, times and locations, please go to our Web site.

## Questions? Ask away

Give us a call:

 206.685.8936 OR 1.800.506.1325

Send us an email:


 [EXTNADVISING@EXTN.WASHINGTON.EDU](mailto:EXTNADVISING@EXTN.WASHINGTON.EDU)

## Apply or register today

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