



Cornell University
College of Human Ecology

Department of Fiber Science & Apparel Design

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Postdoctoral Associate
Smart Clothing and Wearable Technology

The Department of Fiber Science & Apparel Design (FSAD) in the College of Human Ecology at Cornell University is the only fashion & textile program in the Ivy League. The department seeks applications for a Postdoctoral Associate who has expertise in wearable technology. Successful candidates are expected to develop a studio-based wearable product design course, and scholarship in one or several areas of wearable technology including, but not limited to, smart clothing, program-based design practice, and applications of artificial intelligence and data science to design visualization and modelling.

Duties & Responsibilities

Specific duties and responsibilities may include:

- Assist faculty in developing a studio-based wearable product design course
- Provide assistance in faculty's teaching of wearable product design course
- Conduct research and scholarly activities related to wearable technology and artificial intelligence
- Train graduate students who wish to learn wearable technology
- Develop a funding base for scholarly work related to wearable technology
- Contribute to scholarship of Cornell Performance Apparel Design Lab

Qualifications

- Ph.D. in Computer Science or related fields (including Information Science, Electrical and Computer Engineering, Human Computer Interaction)
- Excellence in programming, and electronic/electric engineering
- Evidence of outstanding accomplishment in wearable technology related research and scholarship (e.g. publications, juried exhibitions and awards).
- Experience of developing smart clothing and Arduino projects
- Experience in multidisciplinary projects
- Experience of grant writing and funded research.
- Excellent English communication skill
- Experience of teaching wearable technology (preferred)
- Experience in the electric engineering industry (preferred)

A clear definition and focus for scholarly work must be demonstrated in vita and personal statement.

Appointment

This is a twelve-month position for one year with the possibility of a one year extension. Salary will be commensurate with qualifications. Excellent fringe benefits are provided. Starting date is December, 2019, negotiable.

Cornell Performance Apparel Design Lab

Cornell Performance Apparel Design Lab is focusing on development of smart clothing and high performance apparel for improved human well-being. The lab is actively collaborating with diverse research groups for development of innovative smart clothing through multidisciplinary research projects. The lab is equipped with 3D motion capture system, 3D scanners, industrial garment production equipment (including sewing machine, seam sealing machine, and embroidery machine), 2D/3D apparel CAD software, 3D modeling software, thermal imaging and monitoring systems, and garment compression measurement systems. The lab has access to laser cutters, 3-D printers, a cutting edge computerized knitting machine, and a digital textile printer available in the Department and College.

The Department

The Department of Fiber Science & Apparel Design is one of five academic units in the College of Human Ecology at Cornell University. Faculty, depending upon appointment, carries out a three-fold mission of research, teaching, and outreach. Across the graduate field of Fiber Science & Apparel Design, M.A./M.S./MPS and Ph.D. degrees in Apparel Design or Fiber Science are offered.

The undergraduate program offers options in Fashion Design, Fashion Design Management and Fiber Science. Apparel Design faculty work collaboratively to recruit outstanding students and advance the undergraduate as well as graduate curriculum which is multi-disciplinary with a problem-solving approach.

The department is currently engaged in development and expansion into new areas, including a master's program in fashion studies and the Cornell Institute of Fashion and Fiber Innovation (CIFFI), fostering collaboration with the fashion, fiber and textile industry.

Facilities include well equipped fashion studios with industrial production equipment, a gallery, research laboratories. In addition, there are department and college CAD facilities with strong technical support and a variety of software, video conferencing facilities in the classrooms, a world renowned library system, advanced computer facilities, and strong support for entrepreneurship and enterprise across campus.

Application Procedures

Applicants must apply through Academic Jobs Online at <https://academicjobsonline.org/ajo/jobs/14761> and upload: a cover letter, CV, statement of research interests and goals, [diversity statement](#), selected publications, selected exhibitions, examples of work, unofficial transcripts, and names of three references. Work may be posted on YouTube or Vimeo. In this case submit a document for each requirement, with the links to your work.

Applications will be reviewed on an ongoing basis and accepted until the position is filled.

For further information, please contact Professor Huiju Park, Director of Cornell Performance Apparel Design Lab, at hp347@cornell.edu or 607-255-0185.

Diversity and Inclusion are a part of Cornell University's heritage. We're an employer and educator recognized for valuing AA/EEO, Protected Veterans, and Individuals with Disabilities.