



- 1) **Terveydenhuolto asiakkaan arvoketjussa –seminaari Otaniemessä 11.11.2010**
- 2) **Associate Department Head of Undergraduate Studies, Blacksburg, Virginia**
- 3) **Biomechanics/Biomedical Engineer (Research Associate Position)**
- 4) **Konferensseja ja tärkeitä päivämääriä**

1) *Terveydenhuolto asiakkaan arvoketjussa –seminaari Otaniemessä 11.11.2010*

Arvoisa vastaanottaja,

Tervetuloa Aalto-yliopiston HEMA Instituutin järjestämään tutkimusseminaariin 11.11.2010.
Seminaarin teemana on **Terveydenhuolto asiakkaan arvoketjussa**.

Aika: 11.11.2010 klo 8.30–13.00

Paikka: SAHA, Otaniemi, Konemiehentie 1, Espoo

Ohjelma:

8.30-8.40	Tervetuloa
8.40-9.25	"Sittenkin autotehdas? Prosessiajattelu terveydenhuollossa", professori Paul Lillrank
9.25-10.10	"CoCreating Health - asiakaskeksisyyttä etsimässä", tutkimuspäällikkö, TkL, Karita Reijonsaari
10.10-10.30	Kahvitauko
10.30-11.15	"Alueellisen palveluverkon suunnittelu Kymenlaaksossa", arkkitehti Antti Autio
11.15-12.00	"Tuotantotalouden rooli arvoketjussa: Esimerkkejä perusterveydenhuollon ja erikoissairaanhoidon tutkimuksista", TkT Antti Peltokorpi
12.00-13.00	Lounas

Ilmoittautumiset 22.10 mennessä: antti.peltokorpi@tkk.fi tai p. 041 435 0530. Tilaisuus on ilmainen.
Voitte jakaa kutsua organisaatiossanne myös muille aiheesta kiinnostuneille.

Lämpimästi tervetuloa!

Antti Peltokorpi
TkT, projektipäällikkö
HEMA Instituutti (Healthcare Engineering, Management, and Architecture)
Aalto-yliopisto
hema.tkk.fi
antti.peltokorpi@tkk.fi
p. 041 435 0530



2) Associate Department Head of Undergraduate Studies, Blacksburg, Virginia



Associate Professor for Associate Department Head of Undergraduate Studies

The Virginia Tech-Wake Forest University School of Biomedical Engineering and Sciences invites applications for the position of Associate Professor and Associate Department Head for Undergraduate Studies. The successful candidate will lead the SBES initiative to develop a new undergraduate biomedical engineering program, maintain an active research program and contribute to the educational mission of the Department at both the undergraduate and graduate levels. We are seeking applicants across all areas of biomedical engineering.

The position will be located on the Virginia Tech campus of the School of Biomedical Engineering and Sciences (SBES) in Blacksburg, Virginia. SBES is a multi-disciplinary, multi-institutional program that bridges engineering, science, and medicine. The program combines and leverages the strengths of Virginia Tech's College of Engineering, the Wake Forest School of Medicine, the Virginia-Maryland Regional College of Veterinary Medicine and the new Virginia Tech Carilion School of Medicine to produce an environment that fosters outstanding interdisciplinary research and education.

SBES offers MS, PhD, MD/PhD, and DVM/PhD graduate degree programs. The diplomas carry the seals of both Virginia Tech and Wake Forest University. The School has grown rapidly since its inception in 2003. SBES currently has 51 tenure track faculty (17 primary and 34 joint) and over 200 graduate students involved in biomedical engineering and sciences research. In October 2008, SBES moved into the new Institute for Critical Technology and Applied Science building on the Blacksburg campus which increases the school to 80,000 sq. ft. of laboratory space designed specifically for cutting edge biomedical research. Our externally funded research expenditures have grown to approximately \$25 million last year with \$10 million coming from our primary faculty.

Established in 1872 as a land-grant college, Virginia Tech is a comprehensive research university with more than 29,000 students. The Virginia Tech College of Engineering is consistently ranked among the nation's top 20 U.S. engineering schools. Wake Forest University was founded in 1834 and is a private comprehensive research university with 6,800 students, dedicated to the pursuit of excellence in the liberal arts and in graduate and professional education. The Wake Forest University School of Medicine is ranked among the best medical schools in the United States.

Blacksburg is consistently ranked among the country's best places to live. It is a scenic and vibrant community nestled in the New River Valley between the Alleghany and Blue Ridge Mountains. The town is near national forests, state parks, and other regional attractions of Southwest Virginia, renowned for their history and natural beauty.

Candidates must hold a doctorate in Biomedical Engineering or a related engineering field; qualify for tenure at the rank of associate professor or higher; have a demonstrated record of university-level teaching and research; and have a record of superior scholarship in biomedical engineering. Highly desirable attributes include demonstrated experience in the administration of an engineering degree program, assisting with ABET accreditation, fostering workplace diversity, and development of undergraduate engineering curriculum.

Virginia Tech has a strong commitment to the principles of diversity, inclusion, and to maintaining a work and learning environment that is free of all forms of discrimination. It is the recipient of a National Science Foundation ADVANCE Institutional Transformation Award to increase the participation of women in academic science and engineering careers. Virginia Tech is an Equal Opportunity/Affirmative Action Institution.

Applications must be submitted online to <http://jobs.vt.edu> using posting number 0100624. Applications must include a cover letter, curriculum vitae, contact information for at least three professional references, and a statement (limited to three pages) that describes research and educational interests. At least one of the references should be able to discuss the candidate's administrative experience and abilities. Further information about SBES, the partner universities, and Blacksburg can also be found at this site or the SBES homepage (www.sbes.vt.edu). Applicant screening will begin on December 1, 2010 and continue until the position is filled.

Inquiries about the position or from individuals desiring accommodations in the application process should be directed to: Professor H. Clay Gabler, gabler@vt.edu, Phone 540-231-7190, Chair, Search Committee for the SBES Associate Department Head, School of Biomedical Engineering and Sciences, MC 0298, Blacksburg, VA 24061.



3) *Biomechanics/Biomedical Engineer (Research Associate Position)*

The Bioengineering Laboratory at the Massachusetts General Hospital (Boston, MA) has an immediate opening for a biomechanics/biomedical engineer (research associate position).

REQUIREMENTS:

- Master's degree in Biomedical, Biomechanics or Mechanical Engineering
- Excellent knowledge of human joint biomechanics
- Good working knowledge of MATLAB and general FEA/Simulation software/s
- Experience with in vitro testing of human joints
- Knowledge of CAD programs such as Solidworks/PRO-Engineer/Rhinoceros is a plus

RESPONSIBILITIES

The successful candidate will work under the guidance of Dr. Kartik Varadarajan (Research Scientist) and Dr. Guoan Li (Director).

The research associate's responsibilities will include

- (1) Conducting in-vitro testing on cadaveric human knee specimens, using the Bioengineering Lab's six-degree-of-freedom robotic testing system
- (2) Conducting in-vivo imaging studies on living subjects to study the biomechanics of knees following joint replacement surgery
- (3) Running computer simulations of human knee biomechanics using software such as KneeSim/Abaqus

Interested applicants should email CV/Resume along with contact information of 3 references to Dr. Varadarajan

ABOUT THE BIOENGINEERING LAB:

<http://www.mgh.harvard.edu/ortho/research/researchlab.aspx?id=1013>

The Orthopaedic Bioengineering Laboratory was established in 1998 by Dr. Guoan Li. Upon establishing the laboratory at MGH, Dr. Li's focus was on the novel application of robotic technology to the in-vitro motion simulation of the human upper and lower extremity. Using this robotic technology, the laboratory pioneered the investigation of human knee function in high flexion angles and revealed many factors that hinder deep flexion after total knee arthroplasty. In 2003, the laboratory established a dual plane fluoroscopy based imaging system that could accurately determine in-vivo 6DOF musculoskeletal joint kinematics.

This technique has since contributed to a series of papers reporting the in-vivo function of the human ankle, knee, elbow, shoulder and spine. In the recent years, the laboratory has been involved in orthopaedic translational research, such as developing the next generation of total knee arthroplasty and new ACL reconstruction techniques.

=====
Dr. Kartik Mangudi Varadarajan, PhD
Research Scientist, Dept of Orthopaedic Surgery Bioengineering Lab, Massachusetts General Hospital
55 Fruit St, GRJ-1215
Boston, MA - 02114
Ph (Off): 617-724-3246
Email: kmangudivaradarajan@partners.org
=====



4) Konferensseja ja tärkeitä päivämääriä

5th International Symposium on Bio- and Medical Informatics and Cybernetics (BMIC 2011)

19-22.7.2011, Orlando, Florida, USA

Important dates: Paper submission 6.10.2010

<http://www.2011iisconferences.org/BMIC>

The Fifth International Symposium on Medical Information and Communication Technology

27-30.3.2011, Montreux, Switzerland

Important dates: Paper submission 15.10.2010

<http://www.ismict2011.org/>

The Eighth IASTED International Conference on Biomedical Engineering (Biomed 2011)

16-18.2.2011 Innsbruck, Austria

Important dates: Paper submission 27.10.2010

<http://www.iasted.org/conferences/home-723.html>

The eighth IEEE International Symposium on Biomedical Imaging (ISBI'11)

30.3-2.4.2011 Chicago, USA

Important dates: Paper submission 28.10.2010

<http://www.biomedicalimaging.org/>

Muita konferenssiilmoituksia: <http://www.lfty.fi>