

Faculty Position in Advanced Manufacturing Technologies [Canada Research Chair, Tier 2]

The Department of Wood Science in the Faculty of Forestry at **University of British Columbia**, Vancouver, Canada **invites** applications for a tenure-track Canada Research Chair (Tier 2) to begin in July 2013. We will consider exceptional candidates in areas of manufacturing technologies who can advance fundamental knowledge and practice in the processing of wood and wood composites. The candidate should have demonstrated excellence in original research. We are especially interested in, but not limited to, candidates in any one of the following four focus areas:

- **Digital design and fabrication:** computer-aided design and fabrication technologies for consumer products and/or architecture. Areas and technologies of particular interest include: 3-D digital design for manufacturing; Direct digital manufacturing methods including but not limited to 3-D printing, multi-axis CNC milling, selective laser sintering and etching and deposition milling; CAD-CAM systems for architectural and structural applications
- **Mechatronics:** synergistic combination of electronic/computer/software/mechanical system design engineering. Areas of interest include: Computational systems for real-time control of milling and processing machines; Design of automated machinery; Robotic systems for manufacturing; Scanning and size and defect sensor systems
- **Energy efficiency:** reducing energy used to manufacture wood products and/or increasing energy efficiency of wooden building components and structures. Areas of interest include: Redesign of building components to increase energy efficiency; Methods of assessing the energy efficiency of building components; Renovation of wooden buildings to increase energy efficiency; Development of robust machines and integrated systems for the manufacture of highly energy efficient wooden buildings and components
- **Recycling and reuse:** design of wood materials and building components for ease of recycling and reuse. Areas of interest include: Development of robust machines for reusing wooden demolition waste; Novel coatings and fixings to assist recycling of wood; Scanning systems to separate different wooden waste streams and identify contaminants; Design of wooden buildings for changing family needs and ease of deconstruction

Candidates must hold a **doctorate** in an appropriate field and are expected to establish an outstanding, funded research program as well as contribute to both undergraduate and graduate instruction. Applicants at the level of Assistant Professor are preferred, but appointments at the Associate Professor level will be considered. Salary and rank will be commensurate with qualifications and experience.

Information on the Canadian government's **CRC programme** can be found at <http://www.chairs.gc.ca/>. All positions are subject to review and final approval by the CRC Secretariat. Canada Research Chairs are open to individuals of any nationality; offers will be made in accordance with Canadian immigration requirements associated with the Canada Research Chairs program. UBC hires on the basis of merit and is committed to employment equity. All qualified persons are encouraged to apply. We especially welcome applications from members of visible minority groups, women, Aboriginal persons, persons with disabilities, persons of minority sexual orientations and gender identities, and others with the skills and knowledge to engage productively with diverse communities.

Applications are being accepted electronically via wood.reception@ubc.ca until **15th October 2012**. The application should include curriculum vitae, a statement of research interests and their relevance to the interests of the position, three publications, a statement of teaching interests relevant to advanced manufacturing technologies (above) and two reference letters. Please send applications to: Department Secretary (CRC Tier 2), Department of Wood Science, Faculty of Forestry, Forest Sciences Centre, 2900-2424 Main Mall, University of British Columbia, Vancouver, BC, Canada, V6T 1Z4. For information on the **Department of Wood Science**, see www.wood.ubc.ca.

Questions should be directed to: **Professor Rob Kozak**, Head of the Department of Wood Science (rob.kozak@ubc.ca) or **Professor Philip Evans**, BC Leadership Chair and Chair of the Search Committee (phil.evans@ubc.ca).