

**Scientific Programmer  
Institute for Space Imaging Science  
University of Calgary**

**Duration:** The term is three years, beginning as soon as the position is filled.

**REQUIREMENTS**

**Education:** A B.Sc. in Computer Science, Software Engineering, or an equivalent combination of education and experience.

**Experience:** At least two years experience with object-oriented programming and software testing, including C++ and Python, and use of Unix and/or Linux operating systems is required. Experience with scientific computing, particularly with radio astronomical data processing algorithms, and knowledge of aperture synthesis radio telescopes and techniques is considered a strong asset.

**DESCRIPTION**

The Square Kilometre Array is an international project to construct the next generation international radio telescope array. The University of Calgary Institute for Space Imaging Science seeks a skilled scientific programmer to support SKA simulation studies and software development for imaging with SKA technologies. This project is funded by the Natural Sciences and Engineering Research Council of Canada as part of the Canadian SKA program. The successful applicant will join a Canadian SKA development program software team at the University of Calgary and the Herzberg Institute of Astrophysics, Dominion Radio Astrophysical Observatory (DRAO), working on software development to support high-dynamic range, broad-bandwidth, wide-field imaging. The work site will be at the University of Calgary in Alberta but some travel to international meetings and to visit other SKA development centres will be required.

The University of Calgary is located in the city of Calgary in the foothills of the Rocky Mountains. With a population over one million, it is Canada's fourth largest metropolitan centre and offers a vibrant cultural community and access to outstanding outdoor recreation.

Information on radio astronomy within the Institute for Space Imaging Science can be found at [www.ucalgary.ca/ras](http://www.ucalgary.ca/ras).

Interested individuals should send a cover letter and curriculum vitae to:

Prof. A.R. Taylor, Head  
Department of Physics and Astronomy  
Director, Institute for Space Imaging Science  
University of Calgary  
2500 University Dr. N.W.  
Calgary, Alberta  
Canada

or by email to [admin@ras.ucalgary.ca](mailto:admin@ras.ucalgary.ca)

Applications received before May 1, 2009 will be given full consideration.