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Canada Research Chair (Tier 1) in Space Environment Physics

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Requisition: req3722

Open Date: January 15, 2019

The Department of Physics & Engineering Physics in the College of Arts & Science at the University of Saskatchewan is pleased to invite applications for a tenured Tier 1 Canada Research Chair in Space Environment Physics. The Canada Research Chair (CRC) Program is the flagship of a national strategy to make Canada one of the world's top countries in research and development (www.chairs-chaire.gc.ca) (<http://www.chairs-chaire.gc.ca/>).

The successful candidate will conduct a vigorous research program in space physics with a focus on synergistic measurements and model studies of the electrodynamic processes in the Earth's ionosphere and magnetosphere, including interactions between the charged and neutral environments. The observational part of the program would encompass: ground-based remote sensing of the ionosphere and magnetosphere; and particles and fields measurements of the near-Earth space environment.

The **Institute of Space and Atmospheric Science** (<http://artsandscience.usask.ca/physics/facilities/isas.php>) (ISAS), with its six Physics & Engineering Physics faculty members, is the largest and most comprehensive Solar-Terrestrial Physics and Atmospheric Science Institute in Canada. The research expertise in solar-terrestrial physics in ISAS has a strong focus on ground-based radar remote sensing. ISAS has strong international collaborations as a member of the Super Dual Auroral Radar Network (SuperDARN), through its scientific and operational collaborations with satellite missions, such as Themis, the Van Allen Probes, Swarm, Arase, and others. SuperDARN Canada is a part of the Canadian Space Agency's Geospace Observatories (GO Canada) program. Other collaborative opportunities exist through the University of Saskatchewan's membership in the University Corporation for Atmospheric Research (**UCAR** (<https://www2.ucar.edu/>)), the **Global Institute for Water Security** (<https://www.usask.ca/water/>), and the **School for Environment and Sustainability** (<https://sens.usask.ca/>).

The **Department of Physics and Engineering Physics**

[\(http://artsandscience.usask.ca/physics/\)](http://artsandscience.usask.ca/physics/) is a diverse department of 22 faculty members (including one Canada Research Chair and 9 professional engineers), and over 60 graduate students. The department has experimental and theoretical research strengths in Plasma Physics, Space and Atmospheric Studies, Condensed Matter Physics, Material Science, and Subatomic Physics. The department is responsible for undergraduate programs in Physics (B.Sc.), an accredited Engineering Physics program (B.E.), supports an interdisciplinary program in Mathematical Physics (B.Sc.), and offers thesis-based M.Sc. and Ph.D. graduate programs in Physics & Engineering Physics.

The **College of Arts & Science** (<http://artsandscience.usask.ca/>) offers a dynamic combination of programs in the sciences, social sciences, humanities, and fine arts. There are over 10,000 students in the College and 295 faculty, including 7 Canada Research Chairs. The College emphasizes student and faculty research, interdisciplinary programs, community outreach and international opportunities.

The **University of Saskatchewan** (<http://www.usask.ca/>) is one of Canada's top 15 research-intensive universities. Its main campus is situated on Treaty 6 Territory and the Homeland of the Métis. The University of Saskatchewan is located in **Saskatoon** (<http://www.city.saskatoon.sk.ca/>), Saskatchewan, a city on the banks of the South Saskatchewan River known for its quality of life, diverse and thriving economic base, a vibrant arts community and a full range of leisure opportunities. The University has a reputation for excellence in teaching, research and scholarly activities and offers a full range of undergraduate, graduate, and professional programs to a student population of over 24,000.

Qualifications

The Tier I Canada Research Chair program selection criteria requires nominees to be outstanding and innovative researchers recognized internationally as leaders whose accomplishments have made a major impact in their fields. We are seeking candidates who demonstrate excellence, innovation, creativity, and leadership in research as demonstrated through a superior record of research excellence with demonstrated international impact in their field. The successful candidate is expected to have a track record of leading a vibrant externally-funded research program. The candidate will make strong contributions to teaching at both undergraduate and graduate levels. Applicants should demonstrate excellence in graduate student and postdoctoral fellow supervision, and superior ability for securing competitive external research funding. Applicants must have a Ph.D. and experience at the Full Professor or Associate Professor levels in a relevant field.

The successful applicant will be appointed as a tenured faculty member at the Full Professor or Associate Professor level in the Department of Physics & Engineering Physics and will be nominated for a Tier 1 Canada Research Chair.

The standard salary band for Full Professor is \$130,925 to \$152,877 plus competitive merit-based additions

This position includes a comprehensive benefits package which includes a dental, health and extended vision care plan; pension plan, life insurance (compulsory and voluntary), academic long term disability, sick leave, travel insurance, death benefits, an employee assistance program, a professional expense allowance, and a flexible health and wellness spending program.

How to Apply

Interested candidates must submit their application using the University's **online application portal** (<https://careers.usask.ca/>). Click on the "Apply Now" button (top left side of the page) to submit an application. Visit the "Tips for Applying" page (<https://careers.usask.ca/tips-for-applying.php> (<https://careers.usask.ca/tips-for-applying.php>)) for instructions on how to apply.

Complete applications will include a detailed curriculum vitae, a research proposal, a teaching statement, and the names and contact information of three references. As part of the application process, applicants will be asked to complete a voluntary employment equity survey.

Review of applications will begin in February 2019; however, applications will be accepted and evaluated until the position is filled. The anticipated start date is July 1,

2019.

The impact of leaves (e.g., parental leave, extended leave due to illness, etc.) will be carefully considered when reviewing the candidate's record of research achievement. Therefore, candidates are encouraged to explain in their application how career interruptions may have impacted them.

The University of Saskatchewan is committed to supporting employees in need of accommodation in an employment context. For more information on the University of Saskatchewan's accommodation policy, please contact **Carine.Paley@usask.ca** (**<mailto:Carine.Paley@usask.ca>**) (306-966-8650).

All qualified candidates, Canadian and other nationalities are encouraged to apply. The University encourages applications from members of the four designated equity groups (women, members of a visible minority, Indigenous persons, and persons with disabilities). Recruitment will be guided by the Canada Research Chairs Equity, Diversity and Inclusion Practices (**www.chairs-chaire.gc.ca/program-programme/equity-equite/index-eng.aspx** (**<http://www.chairs-chaire.gc.ca/program-programme/equity-equite/index-eng.aspx>**)) and by the strong commitment of the University of Saskatchewan, the College of Arts & Science, and the Department of Physics & Engineering Physics to diversity, inclusion, and equity.

For questions related to this position or the selection process, please contact Sasha Koustov (Professor and Department Head, Physics & Engineering Physics) at **Sasha.Koustov@usask.ca** (**<mailto:sasha.koustov@usask.ca>**) or (306) 966-6427.

Date Posted: January 19, 2019

The University of Saskatchewan is strongly committed to a diverse and inclusive workplace that empowers all employees to reach their full potential. All members of the university community share a responsibility for developing and maintaining an environment in which differences are valued and inclusiveness is practiced. The university welcomes applications from those who will contribute to the diversity of our community.
