Canada Research Chair in Number Theory and Arithmetic Geometry, Department of Mathematics and Statistics, Faculty of Science

Applications are invited from emerging leaders in the areas of number theory and arithmetic geometry, for a Tier II Canada Research Chair in Mathematics at the University of Calgary. The Chair will be appointed as a **tenure-track Assistant Professor**. In alignment with the University of Calgary's Eyes High strategic vision and in support of its strategic academic and research priorities of leadership, teaching and research integration, and creating a dynamic environment to promote research excellence, the Chair will actively contribute to research, teaching and curriculum development, and student/postdoc supervision, and is in time expected to grow into a leadership role within the Department and the institution.

The Chair will be based in the **Department of Mathematics and Statistics** and will join a highly active, well-connected, cohesive team of number theorists with broad interests. The candidate is expected to work in one or more of the group's existing research strengths in computational, algorithmic and algebraic number theory, algebraic and arithmetic geometry, automorphic forms and representations, the Langlands program, and applications to cryptography.

Together with several world-class research teams in Canada, the United States, France and Germany, the University of Calgary's number theory group is an integral part of a Collaborative Research Group in Explicit Methods for Abelian Varieties sponsored by the Pacific Institute for the Mathematical Sciences (PIMS). Through this initiative, the Chair will be integrated into an extensive network of potential collaborators and have immediate access to funds for academic visitors. Further collaborative opportunities are anticipated to arise through the team's close affiliation with the University's Institute for Security, Privacy and Information Assurance and its synergies with the Institute for Quantum Science and Technology. The nearby Banff International Research Station for Mathematical Innovation and Discovery, host to world-class conferences throughout the year, offers access to additional research collaborations and high-profile visitors. Numerous competitive funding opportunities are available from institutional, provincial, regional, and national sources, including URGC, AITF, PIMS, MITACS/MPRIME, and NSERC. Number theory and arithmetic geometry represent significant regional and national areas of expertise whose strength is leveraged further through regular joint video-conferenced seminars and institutional membership in the Pacific Rim Mathematical Association.

Other resources available to the Chair include access to a state-of-the-art video-conferencing facility and to the extensive WestGrid computing resources free of charge. The Department offers partial support for a formal postdoctoral program and provides full fall/winter funding for graduate students, with the expectation that substantial summer funding should come from the Chair or other sources.

Candidates will be expected to demonstrate leadership in a research or research team setting, an outstanding publication record, and an international reputation as a researcher. The application package must demonstrate the impact of the applicant's work. Indicators of quality and impact include peer-reviewed publications in scholarly venues of high quality, invited presentations at major national and international research conferences, and external research funding. The incumbent for this position would be expected to establish a research team of students and PDFs, and would be anticipated to explore collaborative opportunities with members of the university, national, and international scientific

communities. Involvement in the training or mentorship of students is an asset. Teaching will also be required of the incumbent, so evidence of engagement in teaching and learning that demonstrate this competency will be required.

The Department of Mathematics and Statistics at the University of Calgary is committed to student engagement and creating an innovative, student-centered learning environment. Information about the Department and its programs can be found at http://math.ucalgary.ca.

Start Date: negotiable, on or after July 1, 2016

How to apply: Applications must be **submitted electronically through mathjobs.org** and consist of:

- a curriculum vitae
- a description of past, current and planned future research (up to 4 pages)
- a description of potential synergies with current research conducted at the University of Calgary and of how the applicant plans to advance the development of the U of C number theory group, including evidence of their potential to assume a future leadership role (up to 4 pages)
- a statement of teaching focus and philosophy and any evidence in support of effective educational activities

Each applicant should also arrange to have four letters of recommendation, one of which addresses teaching, uploaded to the mathjobs.org website.

Application deadline is May 31, 2016. Short-listed candidates will be contacted for an interview. For additional inquiries, contact search@math.ucalgary.ca.

The University of Calgary believes that a respectful workplace, equal opportunity and building a diverse workforce contribute to the richness of the environment for teaching, learning and research, and provide faculty, staff, students and the public with a university that reflects the society it serves. All qualified candidates are encouraged to apply; however Canadians and permanent residents will be given priority. In this connection, at the time of your application, please answer the following questions: Are you a Canadian citizen or a permanent resident of Canada? (Yes/No)

In support of the University of Calgary's promotion of a diverse workforce, the Faculty of Science is committed to showing leadership in diversity, equity and inclusion and nurturing a healthy and respectful workplace environment for all.

To learn more about academic opportunities at the University of Calgary and all we have to offer, view our Academic Careers website. For more information about the Faculty of Science visit Careers in the Faculty of Science

About the University of Calgary

The University of Calgary is Canada's leading next-generation university – a living, growing and youthful institution that embraces change and opportunity with a can-do attitude. Located in the nation's most enterprising city, the university is making tremendous progress on its Eyes High journey to become one of Canada's top five research universities, grounded in innovative learning and teaching and fully integrated with the community it both serves and leads. Ranked as the top young university in Canada and North America, the University of Calgary inspires and supports discovery, creativity and innovation

across all disciplines. For more information, visit ucalgary.ca.

About Calgary, Alberta

Ranked the 5th most livable city in the world, Calgary is one of the world's cleanest cities and one of the best cities in Canada to raise a family. Calgary is a city of leaders - in business, community, philanthropy and volunteerism. Calgarians benefit from a growing number of world-class dining and cultural events and enjoy more days of sunshine per year than any other major Canadian city. Calgary is less than an hour's drive from the majestic Rocky Mountains and boasts the most extensive urban pathway and bikeway network in North America.