

PhD Position in Numerical Linear Algebra and High
Performance Computing
Charles University

Direct Link: <https://www.AcademicKeys.com/r?job=244806>

Downloaded On: Sep. 14, 2024 12:17am

Posted Sep. 13, 2024, set to expire Oct. 31, 2024

Job Title	PhD Position in Numerical Linear Algebra and High Performance Computing
Department	Faculty of Mathematics and Physics https://www.mff.cuni.cz/cs/math/knm
Institution	Charles University Praha, , Czech Republic
Date Posted	Sep. 13, 2024
Application Deadline	Oct. 31, 2024
Position Start Date	Feb. 1, 2025
Job Categories	Graduate Student
Academic Field(s)	Mathematics/Applied Mathematics Computer/Information Sciences
Job Website	https://www.karlin.mff.cuni.cz/~carson/inexascale
Apply By Email	carson@karlin.mff.cuni.cz

Job Description

A PhD position is available within the framework of the ERC project "Analyzing and Exploiting Inexactness in Exascale Matrix Computations", led by Dr. Erin Carson at the Faculty of Mathematics and Physics at Charles University. Applications are invited from candidates who have strong background in **numerical linear algebra, numerical analysis, parallel computing, or computational/data science application** domains. The anticipated start date is February 2025, by which time the applicants must hold a Master's degree. Successful candidates must formally enroll in the PhD program at Charles University.

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Potential PhD topics include, but are not limited to:

- * Development and analysis of mixed precision numerical linear algebra algorithms
- * Parallel algorithms and implementations for new mixed precision algorithms
- * Numerical linear algebra applied to data analysis and machine learning applications
- * Stability and convergence analysis of asynchronous methods
- * Application of new algorithms within a particular computational or data science discipline

Further details about the project can be found at the project website:

<https://www.karlin.mff.cuni.cz/~carson/inexascale>

Application deadline: October 31, 2024

Interested candidates should submit the following documents to carson@karlin.mff.cuni.cz:

- * Curriculum Vitae
- * Cover letter explaining motivation and interest to obtain the position of PhD student
- * Brief summary of Master's thesis (including pdf file of Master's thesis if available)

In addition, the candidate should arrange for two letters of recommendation to be sent directly (i.e., not sent by the applicant) to the same e-mail address before the application deadline.

Selected finalists will be invited to officially apply through the university system; official acceptance in the program will be pending an entrance examination (which can be done virtually) and an English examination (which must be in-person but can be waived in many circumstances). For complete details on the admissions procedure, see <https://www.mff.cuni.cz/en/admissions/admission-procedure-in-phd-programmes/2024-2025>.

Questions regarding the application can be directed to:

Dr. Erin C. Carson

Department of Numerical Mathematics, Faculty of Mathematics and Physics, Charles University
Sokolovska 83, 18675 Prague

Email: carson@karlin.mff.cuni.cz

Homepage: <https://www.karlin.mff.cuni.cz/~carson>

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Contact Information

Please reference Academickeys in your cover letter when
applying for or inquiring about this job announcement.

Contact Erin C. Carson
Faculty of Mathematics and Physics
Charles University MFF
Sokolovska 83
Prague 18675
Czech Republic

Contact E-mail carson@karlin.mff.cuni.cz