



EUROPEAN UNION
European Structural and Investment Funds
Operational Programme Research,
Development and Education



MINISTRY OF EDUCATION,
YOUTH AND SPORTS

What can Charles University offer to a foreign scholar working in the Czech Academy of Sciences?

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The training is aimed at the researchers of the Institute of Mathematics of the Czech Academy of Sciences. The cost of the training is covered from the OPVJV project CZ.02.2.69/0.0/0.0/18_054/0014664 Institute of Mathematics CAS goes for HR Award – implementation of the professional HR management.

Overview

I. Basic information on the educational system of Fac. Math. Phys., CU

II. Graduate studies

III. Habilitation proceedings

IV. Professorships

V. Discussion.

Basic information

The Bologna System implementation

Undergraduate education is realized at the Faculty in two stages:

3 year Bachelor (Bc.)

Finished by a State Exam incl. defending a Bachelor Thesis
- in Czech in all areas, in English only in the area of Comp. Sci.

2 year Master (Mgr.)

Finished by a State Exam incl. defending a Diploma Thesis
- in Czech and English in ALL areas.

all Czech programs are FREE (for 3+1 or 2+1 years of study),
the are English not: for each of them, the annual TUITION FEE is 3100
euro for students from the EU, and 5100 for those from outside the EU.

Basic information

3 areas: Mathematics (4 bachelor programs, 7 master programs), Computer Science (1, 7), and Physics (1, 6).

Bachelor programs in math.

General Math., Math. for Information Tech. (MIT), Financial Math., Math. Modeling.

Master programs in math.

Math. Structures (algebra, geometry, logic, number theory); MIT; Math. Analysis; Comput. Math.; Math. Modeling in Physics and Technology; Financial and Insurance Math.; Probability, Statistics and Econometrics.

Graduate studies

4 year study (FREE both in the Czech and English programs), **individual study plan, strong role of the adviser**, no lectures, research seminars.

Master degree required A PRIORI, entrance exam (math, English) can be waived

Exams: English (1st year), State Doctoral Exam (2nd year); Defence of the Thesis (4th year).

Stipend (Czk): 10.000 from the University/Faculty + 10.000 School + grants of the advisor/UNCE etc., usually over 25.000 in total.
stipends increase after passing the State Doctoral Exam, and after publishing of 2 or more research papers, teaching assistant positions.

A longer (1 semester or more) stay abroad recommended.

Graduate studies

PhD programs in Math.

- Algebra, number theory, and mathematical logic (chair of the board: Jan Krajiček)
- Computational mathematics (chair: Vt Dolej)
- Probability and statistics, econometrics and financial mathematics (chair: Viktor Bene)
- Mathematical Analysis (chair: Lubo Pick)
- Geometry, topology, and global analysis (chair: Branislav Juro)

Related PhD program in Computer Science: Theoretical computer science and artificial intelligence (chair: Roman Bartk)

Related PhD program in Physics: Mathematical and computer modeling (chair: Milan Pokorn)

Desired Profile of an Associate Professor (requested by the Faculty)

An Associate Professor is an internationally accomplished researcher, has successful teaching experience and an active approach to service to the academic community.

Research: The applicant will have her/his own clearly defined research programme and international accomplishments proven in a way standard for her/his research field, supported by letters written by distinguished experts in the area. Depending on the area in question, quantitative metrics used will include (co-)authorship of original publications, adequately cited and published in international IF-journals or proceedings of renowned conferences; important contributions to the creation of reviewed artefacts; invited talks at international conferences, etc. Authorship of survey or review papers and chapters in research books and monographs is also appreciated. The applicant will have submitted project applications to major national and international grant agencies and will have been a grant recipient at least at a national level.

Desired Profile of an Associate Professor

Teaching: The applicant will have experience in teaching university courses, receiving for them good student evaluations, and in supervising undergraduate theses. Experience in the supervision of graduates is appreciated.

Service: The applicant is expected to have served the international research community, e.g., as a reviewer for journals, conferences, and grant agencies, as a (co-)organizer of conferences and workshops, and as an active member of professional organizations. She/he will actively participate in committees and the administrative and service activities of her/his Department.

CU requirements

Scientometric requirements:

1. Number of publications: 20
2. – with IF: 6

Number of citations (without self-citations): 15.

Remark: 1. can be smaller in case 2. is substantially larger.

Teaching requirements: past 3 year survey,
Dean's LOR on teaching in case of an applicant from outside CU.

Desired Profile of a Full Professor (requested by the Faculty)

A Full Professor is an internationally recognized personality, both for her/his research and for educational activities.

Research: The applicant has a distinguished research programme with international recognition supported by letters written by distinguished experts in her/his research field. She/he has become a key and influential personality of the relevant Department. She/he has authored a number of highly cited publications relevant to her/his research programme. She/he has been recognized by the research community, for example by being an invited or plenary speaker and member of programme and steering committees at renowned international conferences. The distinguished position of the applicant will also be documented by authoring invited surveys, reviews, books or monographs. The applicant takes part in important national and international projects.

Desired Profile of a Full Professor

Teaching: The applicant has a leadership position in teaching and guarantees the quality of the education programmes in her/his research field, which she/he has created and/or substantially modified, effectively establishing a new school of research. His/her former undergraduate and graduate students are expected to be successful both inside and outside academia.

Service: The applicant assumes important roles in serving the international academic community (such as being an editor of a research journal, or as an organizer or other key role at important conferences). She/he plays an essential part in committees and the administrative and service activities of her/his Department and fulfills the role of mentor to her/his younger colleagues.

CU requirements

Scientometric requirements:

1. Number of publications: 40
2. – with IF: 20

Number of citations (without self-citations): 50.

Remark: 1. can be smaller in case 2. is substantially larger.

Dean's LOR on teaching in case of an applicant from outside CU,
exceptional rules for professors applying from outside the Czech Rep.

Teaching requirements: past 5 year survey.

Discussion

Thanks for your attention.

Questions welcome!