



The MPI-CBG invites applications for:

Postdoctoral Researcher in Applied and Computational Mathematics

Postdocs joining this new mathematics department in the [Center for Systems Biology Dresden \(CSBD\)](#) will develop mathematics with the view to solve open problems in the life sciences. We collaborate with nearby experimental groups within the [Max Planck Institute of Molecular Cell Biology and Genetics \(MPI-CBG\)](#), enabling interactions with biologists for maximal scientific impact. We are committed to curiosity-driven fundamental research and to transferring concepts and structures from mathematics into biological sciences.

We are particularly seeking to hire in applied and computational areas of mathematics like:

- Applied Algebraic Geometry and Topology
- Computational Geometry / Topology
- Differential Equations, Stochastics and Mathematical Modelling
- Mathematical Statistics and Data Science

We also hire in fields exploring the interaction of mathematics and the sciences like:

- Algebraic Statistics
- Bioinformatics
- Combinatorics and Applied Algebraic Geometry
- Computer Algebra
- Data Science / Mathematics of Data
- Dynamical Systems and Differential Equations
- Information Geometry
- Higher Structures and Category Theory
- Fluid Dynamics
- Information Theory and Network Analysis
- Mathematical Biology
- Mathematical Machine Learning / Theory of Deep Learning
- Mathematical and Theoretical Physics
- Stochastic Topology

Successful candidates should be willing to closely collaborate with at least one of the research groups of the institute.

The **Max Planck Institute of Molecular Cell Biology and Genetics** and the adjacent **Center for Systems Biology Dresden** are basic research institutes that pursue a mission to advance multiscale biological discovery through innovative and cutting-edge mathematics, physics, and computation. Currently about 500 employees from over 50 countries work at the institute in a highly collaborative and curiosity-driven environment. MPI-CBG has twice been awarded the title “Best Place to Work” (Academia and postdocs) by the journal “The Scientist”. Employees appreciate the collegial atmosphere, as well as the family-friendly and flexible working conditions. The official language of the institute is English.



Your qualifications:

A university and a PhD degree in Mathematics, Computer Science, or related fields is required. Previous experience and a strong track record in the fields listed above will be considered positively.

Our offer:

- The full-time Postdoc position is for an initial period of 2 years with the possibility of extension
- We offer a diversified job in a young, scientifically oriented, international team in one of the most renowned research institutions worldwide
- We provide a scientific environment where you are encouraged to explore new scientific directions and network with many partners across disciplines
- Salary is according to TVöD Bund up to E13 based on qualifications and experience
- Conditions and social benefits of the public service, including 30 days vacation, annual special payment, comprehensive insurance, and an attractive pension plan via VBL (Federal and State Government Employees' Retirement Fund)
- Discounted job ticket (VVO) and good public transport connections
- Support for a positive work-life balance, including assistance with family and childcare matters
- No teaching duties, but the possibility to engage and teach in our international graduate school
- A broad network for career development and training opportunities through the Max Planck Society

Your application:

Please submit your complete application via our online application system at <https://recruitingapp-2443.umantis.com/Vacancies/568/Application/CheckLogin/2?lang=eng> stating **2023-PostDoc-AppliedMathematics-1120**.

Kindly include the following materials:

- Curriculum Vitae (CV) including publication list
- A one-page statement of research interests and scientific achievements (~500 words)
- Contact details of at least two referees as a single pdf file

The deadline for applications including references is **November 15, 2023**.



Inquiries & Next Steps:

The starting date is flexible.

Inquiries about scientific fields can be sent to Heather Harrington (harrington@mpi-cbg.de). Questions regarding contract, compensation or benefits may be addressed to hr@mpi-cbg.de. For further information about the MPI-CBG and the CSBD see www.csbdresden.de, www.mpi-cbg.de.

Max Planck Institute of Molecular Cell Biology and Genetics

Pfotenhauerstr. 108, 01307 Dresden, Germany

<http://www.mpi-cbg.de>

- *The Max Planck Society strives for gender equality and diversity. We welcome applications from all backgrounds, regardless of gender, nationality, ethnicity, sexual orientation, religion, age, and other components of identity.*
- *The Max Planck Society specifically aims to increase the proportion of women in the areas in which they are underrepresented. We therefore explicitly invite women to apply.*
- *The Max Planck Society is further committed to increasing the number of individuals with disabilities in its workforce and therefore encourages applications from such qualified individuals.*
- *The Max Planck Society supports the compatibility of family and career and is certified according to the "berufundfamilie" ("job and family") audit.*
- *If you have obtained a foreign university degree, a proof of the equivalence of this degree with a German degree by the Zentralstelle für ausländisches Bildungswesen (ZAB) is needed before hiring. If necessary, please apply for this in time. You can find more information at <https://www.kmk.org/zeugnisbewertung>.*
- *When you submit a job application to MPI-CBG, you are transmitting personal data. Please refer to our **privacy notice** for information on how we collect and process personal data in accordance with Art. 13 of the Datenschutz-Grundverordnung. By submitting your application you confirm that you have taken note of the information in our privacy notice.*