



Two postdoctoral positions in experimental and computational microbiology

The Eukaryotic microbiology group at the Centre Algatech, Institute of Microbiology in Trebon, Czech Republic is seeking two post-doctoral fellow researchers, one in Experimental microbiology and another in Computational genomics. The group, led by Jan Janouskovec, is under the umbrella of Laboratory of Photosynthesis and works on the understanding of diversity, evolution and ecology of protists, algae and cyanobacteria (e.g., Janouskovec et al., 2017, *PNAS* 114(2); Janouskovec et al., 2017 *Curr Biol* 27(23); Janouskovec et al., 2019, *eLife* 8, e49662). The two positions will focus on characterizing novel metabolic pathways in mitochondria and plastids of protists and algae, and their importance to cell biology, organismal interactions and eukaryotic evolution, by computational (bioinformatics and genomics) and molecular methods (genetic transformation, in-situ localization, metabolite profiling, expression analysis, compound radiolabelling).

Located in a picturesque historic building in the middle of a UNESCO biospheric area and regional tourist hotspot, Centre Algatech hosts several internationally recognized groups in microbial photosynthesis research. With a high proportion of international researchers and a friendly, collegial atmosphere, Centre Algatech is driven by research excellence and currently hosts several major grant awards (ERC, EXPRO). The working language is English. We have outstanding facilities for modern biological research within the network of the Institute of Microbiology and strong research ties with the Biology Center of the Czech Academy of Sciences and the University of South Bohemia in Ceske Budejovice, both located in the nearby capital of the South Bohemian region.

Post-doctoral position in Experimental microbiology requirements: The candidate will have a PhD in Cell/molecular biology, Biochemistry, Microbiology, or Plant/animal biology with an enthusiasm for cell biology processes and metabolism and a record of first-author publications in established journals. S(he) will be highly independent with strong interpersonal skills, and self-motivated to generate own results. Demonstrable experience with cell genetics, biochemistry and/or protists (especially with their lipids and/or phosphorus metabolism) and a record of striving for research excellence are strong assets.

Post-doctoral position in Computational genomics requirements: The candidate will have a PhD in Bioinformatics, Computational biology, or Evolution. (S)he will have independent thinking in developing computational pipelines, experience with big data analysis, and strong communication skills. The candidate will know Shell, Python/Perl and/or R, and have first-author publications in computational biology research. Experience with laboratory genomic and transcriptomic sample preparation pipelines is considered a strength.

We offer: The candidates will be given strong, individual mentorship from the project leader and have the opportunity to instruct PhD and MSc students. They will work in modern research facilities and have opportunities to develop their own research networks by participating in international meetings. The project involves collaboration with the University of Cambridge, University of Southampton, and the ICM in Barcelona and the candidates may be asked to travel to these or other destinations. The institute will offer a post-doctoral contract based on standard academic pay grades, which will consider the amount of previous experience. The contract includes full health and dental insurance paid by the employer and is topped with generous benefits

including lunch vouchers, sport activity vouchers, and a paid vacation of 30 days per year. The contract will be for the period of 3 years including an initial probation period of 3 months. The area is highly affordable in terms of living expenses. We strive for gender equality and we welcome applicants from all minority backgrounds.

The preferred start date for both positions is between September 2021 and January 2022. Review of applications will start on **August 7, 2021** and continue on a rolling basis. The positions remain open until filled (at which point the advertisement will be taken down).

To apply: Please send a SINGLE PDF document in English containing the following information in the specified order to the lab assistant Lucie Fraitova: fraitova@alga.cz:

- Motivation letter detailing your fit for the position (1 page max.)
- Curriculum Vitae (2 pages max.)
- Complete list of peer-reviewed publications
- Contact information for 2 academic referees (do not include letters with the application)

For further information about the position please contact:

Jan Janouskovec: janouskovec@alga.cz

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