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Institute of Computational Science (ICS) – Center for Computational Medicine in Cardiology (CCMC)

## **“Group Leader Position for Computational Methods in Cardiac Electrophysiology and Electro-mechanics” in Computational Cardiology at USI, Lugano.**

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The Center for Computational Medicine in Cardiology (CCMC) in the Institute of Computational Science (ICS) at USI (Università della Svizzera Italiana) Lugano, Switzerland, invites applications for the position of a group leader in the Center for Computational Medicine in Cardiology.

Since its creation in 2008, ICS has grown into a leading place in computational science and has recently become an interfaculty institute, which is associated to USI's Faculty of Biomedicine, to the Faculty of Informatics as well as to the Faculty of Economics. CCMC fosters expertise in different disciplines of life sciences, medicine, natural science, applied mathematics, and computational science to develop computational technologies, translate them into the clinic, and shorten the development cycle for improved therapies and better treatment of heart disease.

The successful candidate will be assigned a position as a group leader in CCMC. The group leader is expected to engage in independent and original research in the field of Computational Cardiology, in particular in the mathematical modeling and numerical simulation of electrophysiology and electromechanics of the human heart. Here, it will be possible and desired to build on currently running activities in this area at CCMC, including our software-framework HART.

The selected applicant is moreover expected to secure funding, to engage in the management of research projects, and to disseminate research of the highest international standard through publications, conferences, and seminars. The candidate is expected to foster cooperation within CCMC. The candidate will also contribute in part to teaching on the ICS undergraduate and graduate programs, and will contribute to the development of CCMC by building up his/her own research group.

CCMC seeks a senior (at least 3 years after completion of his/her PhD thesis) research scientist, who possesses the interdisciplinary expertise to bridge the computational and the clinical world.

A strong background in mathematical modeling and numerical simulation is required. Additionally, we expect a thorough understanding of cardiac electrophysiology and electro-mechanics and clinical unmet needs. The willingness to work interdisciplinary is a key requisite.

We offer an active and stimulating environment, competitive salary, and excellent working conditions.

The position will be filled for a period of 6 years (3+3). The extension will depend on the scientific performance during the first three years.

**How to apply**

Please email a cover letter and curriculum vitae including a list of publications and contact information of three references to [groupleaderccmc@usi.ch](mailto:groupleaderccmc@usi.ch).

For additional information, please contact Prof. R. Krause ([rolf.krause@usi.ch](mailto:rolf.krause@usi.ch)) and Prof. A. Auricchio ([angelo.auricchio@cardiocentro.org](mailto:angelo.auricchio@cardiocentro.org)).

Deadline for submission is February 28<sup>th</sup>, 2019. Applications submitted before this date will have priority.