Call for the expression of interest
for a Web Application Development position

The MensXMachina (MXM) research Group of the Computer Science Department of the University of Crete invites outstanding web developers to express their interest for a contractual position in the design and development of scientific Web Applications.

Expression of interest closing date:	*September 30, 2017*
Preferred starting date:	*October, 2017* (later starting date is possible)
Duration:	*1-2 years*

Job Description

We are looking for an enthusiastic, highly motivated full-stack Software developer with a strong background in multi-tier web applications and cloud services to join our team of experts to lead and support the development of our scientific data analysis web platforms. The platforms host applications on the cloud providing optimized data analytics solutions for researchers across disciplines and geographies.

You will be working across a number of activities aimed at analyzing, visualizing and archiving data and web server provisioning for users and collaborators. You will have the chance to get experienced with state-of-the-art data analysis algorithms and familiarize with high-dimensional data, tools and workflows.

Your responsibility will be to help in designing, implementing and supporting a performant, scalable, user friendly, high availability web-based environment. You will be overseeing the development of key components of the software and actively contribute to the code for all parts of its life cycle from design, development, and deployment to maintenance, operation and support. You will play a critical role in setting milestones with the Team Leader and the other Project Leaders.

Drawing on your experience you may advise the team in the use of modern software development technologies and best practices. In particular, you should have experience in web frameworks, cloud services, high-performance computing services and databases.

The software development in which you will be involved has been the result of many years of our team's leading research in the fields of machine learning and artificial intelligence for data analysis. At MXM we go beyond the data and develop cutting-edge algorithms and software for big-data predictive analytics. We have pioneered technology for scalable, accurate, and principled variable selection methods and Probabilistic Network learning, attracting several national and EU grants.

Skills and Qualifications

You will have a postgraduate degree in computer science or have equivalent experience and demonstrated experience in web applications development (i.e. back-end and front-end tiers, including Client-Server interaction and database operations). Java technologies and computing languages (e.g. Matlab, R) are widely used within our team, so experience is required, together with modern component-based front-end technologies (e.g. Bootstrap). Scripting language experience such as Python is also desirable. The ability to work within a team is critical to this

position as are excellent English language skills, verbal and written and the ability to work with minimal direction when making technical decisions.

Required:

- Postgraduate degree level or equivalent qualification/experience in computational, or related scientific discipline
- Experience developing web applications using PHP, JavaScript, HTML5, and CSS3
- At least 2 or more years' experience writing quality software in a team environment
- Excellent communication skills

Ideally, you will have:

- Knowledge of scripting languages such as R, Matlab or Python
- Experience using high-performance computing services
- Experience in Cloud Services technologies
- Experience in communicating and working with experts (e.g. in a science community) in a co-development model

Location

University of Crete is located near Heraklion, the 4th largest city in Greece on the coast of the island of Crete. The location is ideal for people who enjoy sunny weather and aquatic activities, or are attracted by the history and archeological sites of the island. The Computer Science Department, who will host the research activities, is sited in new buildings and research facilities completed in 2013.

Procedure

Interested candidates should send by email to **mensxmachina@gmail.com** the following material:
- Curriculum Vitae
- Statement of research qualifications and interests
- At least three reference contacts

Further information contacts

Ioannis Tsamardinos
Associate Professor,
Computer Science Dep., University of Crete
tsamard.it@gmail.com

Georgios Papoutsoglou
Post-Doc Researcher,
Computer Science Dep., University of Crete
geo.papoutsoglou@gmail.com

For information on the MXM Group:
www.mensxmachina.org