April 2016

TUCS NEWSLETTER

The first TUCS Internship Program opens with a bang: 24 paid positions being offered

The TUCS Intership Program taps into the enormous talent, energy and creativity of university students to create new bussiness opportunities for technology companies and other organisations. The program also helps students in computer science and related fields to jump start their careers through a smooth transition from their study programs to their professional careers.

In the TUCS paid internship program Master students of University of Turku and Åbo Akademi University get a full immersion into a professional environment in their field through a 6-month part-time job in a company. Interns interact with the company leaders and employees, participate in complex technology challenges, and build skills and relationships to serve them beyond their internship.

The internship is integrated into the universities' study programs and it leads to the students' Master thesis project. By the end of the internship the student would graduate from their study program and would be ready to start their careers.

Applications are done electronically at **http://tucs.fi/internship/**
The deadline for applications is on **Monday, 18th April 2016** at **08:00**.

TUCS leads one of the new research programs at BioCity Turku

The board of Turku Centre for Biotechnology and BioCity Turku decided to select seven proposals as BioCity Turku Research programs for period 2016-2020. One of the selected proposals is "**Computational and Molecular Methodologies for Life Sciences**", built on the skeleton of TUCS's own **BioHealth** research program. The program is led by Ion Petre (ÅA) and Tero Aittokallio (UTU), together with Riikka Lund and Tiina Salminen from BioCity. The program involves 5 research groups from TUCS and 9 research groups from the BioCity community, 47 doctoral candidates and 29 postdocs. The program's vision is that tomorrow's research in life sciences, biomedicine, and pharmacology will increasingly rely on three fundamental pillars: computation, statistics and modern biotechnologies. Its mission is to build and sustain a research community able to address the emerging challenges on this multi-disciplinary research domain.

Two online courses in CS attract over 300 registrations!

TUCS is offering two new courses, starting April 1st, 2016, specifically focused on data science and data analytics.
The courses are completely online and are based on open sources, mainly through OpenCourseWare, including materials from Harvard University, University of California at Berkeley, Stanford University, University of Florida, IBM, and Microsoft.

Introduction to Data Science, 5 ECTS (advanced course)
https://moodle.abo.fi/course/view.php?id=2408

This course is designed to provide an overview to the field of data science. Throughout the course the students get familiar with the different branches of data science and they get to know of the standard steps when dealing with the data: data collection, data cleaning and integration, exploratory data analysis, graph analytics, regression, classification, clustering. They also learn about some of the programming packages of the field. At the end of the course the students are able to do some basic-to-medium data analysis on large data sets.

Data analysis with Visual Basic, 5 ECTS (intermediate course)
https://moodle.abo.fi/course/view.php?id=2409

In this course the students learn how to use the Visual Basic programming skills to deal with the data worksheets. At the end of this course the students are not only able to use the predefined functions to interpret the data, but also are able to write their own functions to do the specific task they are given. Visual basic skills are highly on demand in the market. This makes the course an ideal choice for the professionals who are seeking new careers in the market.

Ongoing and upcoming short courses

Tutorial on cross-platform mobile application development (2 ECTS)
Dr. Sami Hyrynsalmi, M.Sc. Mikhail Belov, M.Sc. Viktor Lukashov
April 2016
Further information: M.Sc. Mikhail Belov (mikbel@utu.fi)

Adaptive data forecasting based on artificial intelligence (2 ECTS)
Dr. Iulian Nastac, Polytechnic University of Bucharest, Romania
last week of April 2016
Further information: Doc. Tomas Eklund (toeklund@abo.fi)

Design science research in information systems (2 ECTS)
Prof. Alan Hevner, University of South Florida, USA
first week of May 2016
Further information: Prof. Hannu Salmela (hannu.salmela@utu.f)

Please send us news from your department/research group at tucs@abo.fi