



## MEDICAL ENGINEERING OF THE FUTURE

### Health research at ETH Zurich

At ETH Zurich, more than 40 professors from the Biology and Engineering departments have already immersed themselves in the study of medical engineering – in close cooperation with the PSI, clinics, the University and the Unispital Zurich. In view of the challenges facing the health system in the future, the field of medical engineering needs greater innovation and a new generation of talented minds.

### Expanding Medical Engineering

In collaboration with partners, ETH Zurich would like to make landmark progress in medical engineering research and applications. It thus aims to enhance its leading role in medical engineering by commissioning additional professors to supplement and expand on existing activities. In addition, the research groups are to meet in a new cross-disciplinary infrastructure in the ETH centre, and – through joint research projects – to cooperate more closely with industry, Zurich University and hospitals.

### The scopes of the new professorships are

- Image-based Modeling and Simulation of Human Physiology
- Mechatronic Medical Device Design
- Energy Harvesting in Bioelectronics
- Technologies for Tissue Engineering and Regenerative Medicine
- Neuroengineering
- Orthopaedic Technologies for Aging

### An investment means

- a larger pool of experts leading to greater innovation
- more young and talented minds educated for research and industry
- ETH Zurich's position as an international hub for medical engineering is strengthened

### Aims

- The establishment of six new professorships
- A new infrastructure and building providing a central nucleus

### Support from Partners

- Per Professorship: CHF 1 Mio. per year, for a period of 10 years
- A contribution to fast-track network development and infrastructure

### Schedule

With financing guaranteed, the first professorships will be advertised at the end of 2009.

## PROJECT MANAGER



**Prof. Dr. Ralph Müller**

ETH Zürich, Delegate of the School Management Board  
Professor for Biomechanic

## KONTACT AND INFORMATION FOR GIVING SUPPORT

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