TUM: Junge Akademie

Welcome

Information Session Year 2017 / II

2017, July 27th / 6.00 - 7.30 p.m.
Technical University Munich / Friedrich-Tiersch-Auditorium / HS 2300
Agenda

Official Welcome & Call for Projects
Prof. Dr.-Ing. Müller, Senior Vice President of TUM, Director of TUM: Junge Akademie

Introduction to TUM: Junge Akademie

Insights from Current Members

The Application Process

Questions & Answers
Official Welcome

Cooperation between HFF, HfP, HMTM and TUM: Junge Akademie
Challenge of complexity

(Abraham Maslow 1908-1970)

Quelle: TUM
Organizing complexity: disciplines

- interest, talent
- tools
- ways of thinking… abstraction, modelling, scientific processes
- experiences… interfaces
- reduction of the reality, realization
Disciplines

- interest, talent
- tools
  - ways of thinking…
  - abstraction, modelling, scientific processes
- experiences…
- interfaces
- reduction of the reality, realization
Disciplines

- mathematics
- informatic
- ... mechanics
- processes
- material
- interest, talent

7
Complexity...
transdisciplinarity

interest, talent

tools

ways of thinking, abstraction, modelling, scientific processes

experiences... interfaces

reduction of the reality, realization
Call for Projects

Prof. Dr.-Ing. Gerhard Müller

“Truth and Lies”

- Are reliable statements possible?
- Can our society tolerate uncertain statements?
- What do we define as the truth? Is it already considered a lie if the truth is not given 100%?
- How do we communicate our models and concepts?

The members of TUM: Junge Akademie will have to make responsible decisions throughout their entire career. We want to support them to develop the necessary skills early on.
Call for Projects
Prof. Dr.-Ing. Gerhard Müller

“Truth and Lies”

• Shaping reality is always based on observation-based assumptions and models, the limits of which we need to be aware of, and which are sometimes difficult to convey.

• Due to the complexity and due to the interactions between technology, society and the environment, the models used meet challenging limits.

• What is to be done so that an honest commitment to uncertainties and limitations of predictions is not exploited in a general way and manipulatively abused?

• How can we avoid being spanned by unrealizable ideas and led to the irresponsible handling of truth?

• What characterizes objectivity and what are the indicators of subjectivity?

• How do we shape our value creation and communication processes for the future against the background of uncertain statements, limited models, the desire for simple truths and the temptation to reduce complexity?
Introduction to TUM: Junge Akademie

What is TUM: Junge Akademie

TUM: Junge Akademie
The scholarship program for the bright minds of TUM

Network

Mentors
Professors and Emeriti of Excellence

External partners

Interdisciplinary exchange with fellow students

Personal Development and Impact

Project phase

Workshops and events

Interdisciplinary exchange with fellow students
Introduction to TUM: Junge Akademie

Active Membership

Year 1
- Nomination
- Application Deadline
- Kick-Off (3 days)
- Information Event
- Selection Days

Year 2
- Future Lab I
- First Evaluation
- Annual Conference
- Second Evaluation

Year 3
- Future Lab II
- Annual Conference
- PAWE: Project Review Weekend and Certification
Introduction to TUM: Junge Akademie

What you can expect and what is expected from you

**What you get**

- **Grow** by working in a scientific, socially relevant and interdisciplinary project
- Act as a member in an **interdisciplinary network** of dedicated students, researchers and professors
- **Benefit** from a variety of **trainings**, workshops and cultural events
- Profit from **advice and criticism** given by experts in their fields
- **Realize** your **ambitious ideas** in an environment that opens doors and provides you with a network of opportunities
- **Have fun** and be inspired by working with ambitious people

**What you give**

- **Commit** to the **project** of your choice
- Schedule **sufficient time** (approximately 7–8 hours a week)
- **Participate** regularly in **workshops** and **events**
- **Contribute** to the program by working in a taskforce or as a tutor
- **Challenge** yourself, both personally and professionally
Insights from Current Members

Project year 2016/17

Establish intercultural exchange and improve the understanding of democracy and the German political system for refugees. *Integration through Democracy*

Designing a multi purpose poster for raising awareness of CO² aspect of ecological footprint and providing information on it. *EatMe - I'm low carbon*

Analyse and investigate the importance of different factors leading to certain decision outcomes concerning food consumption. *EatMe - I'm fancy*
Insights from Current Members
Project year 2016/17

A prototype study to pioneer new means of personalized teaching in the field of interdisciplinary courses.

modulo - the AI-based course recommender system

Examining the user behavior in a locally limited sharing system by implementing umbrella sharing on the campus Garching.

dare2share
Encouraging public participation by transferring the right amount of information and demonstrating the people's influence on political decisions.

Year 17/1

Sustainability of team matching by analyzing underlying needs, factors and processes and developing an adequate tool to bring actors of entrepreneurial initiatives together.

Year 17/1

Design of pictogram based language reduced posters for refugees’ shelters, providing useful information about daily life issues.

Picturise – Year 15/16
Insights from Current Members
Events 2016/17

Future Lab

Annual Conference

Academy Talk

Workshops
Insights from Current Members

Events 2016/17

Culture: Junge Akademie goes Classic, ...

Sports: Sailing, Campuslauf, ...

Getting Together: Running Dinner, Stammtisch, ...

Adventures: Water skiing, Kart racing, ...
The Application Process

Deadlines and required documents

- Letter of motivation
- Your CV
- Grade Report from your University
- "perception (essay) regarding that year’s call"
- In case of an unsolicited application: A letter of support by a professor

Nomination

Application Deadline: September 10th

Selection Days

Be present on one of the two days

- Interviews with tutors and mentors
- Exchange of your ideas and views on that year’s call

Kick-Off Weekend
Questions & Answers
Frequently asked questions

“Can I spend time abroad during the project phase?”

Make sure that you:
• Accomplish a strong role in the project and a taskforce!
• Don’t underestimate the commitment!
• Don’t abandon your teams!

At the same time:
• We want you to grow!
• See the world, make experiences, build a global network.
• Add an international perspective to the project.
• Contribute from abroad.

Places members have visited during the 2014/15 project phase
Questions & Answers

Frequently asked questions

“I am in a late stage of my studies and might leave Munich within the next 1.5 years. Does it still make sense to apply for the program?”

If you are not sufficiently present the program will not be of much use to you.
Your teams rely on you just like you rely on them!

• Make sure you can actively contribute to the project and the network.
• Ask yourself: “Do I really benefit from the program?”

→ In case of doubt come talk to us.
Your Questions
We are looking forward to receive your applications!

Thank you for your attention!