Interdisciplinary Entrepreneurial Education (EE) Talent Journeys

Navigating the combined offering of
TUM / UnternehmerTUM / TUM Venture Labs / TUM Partners

Prof. Dr. Anne Tryba

TUM School of Management
Entrepreneurship Research Institute
Chair of Entrepreneurial Education

in close collaboration with:
TUM Venture Labs, UnternehmerTUM & TUM ForTe - Entrepreneurship

September 2024

As a **bachelor's student**, acquire entrepreneurial competencies in our various learning formats

Learn entrepreneurship basics

- Entrepreneurship in a Digital Age[1]
- Foundations of Entrepreneurial Business[1]
- Innovative Entrepreneurs[2]
- Introduction to Entrepreneurship (Straubing, Heilbronn)[1]
- SEA Start[3]

Develop & validate an innovative idea

General
- Business Plan Basic Seminar[2]
- Innovation Sprint[2]
- Tech Challenge[2]
- TUM Science Hackathon[4]

Domain Focus
- HackaTUM[6]
- Healthcare Innovation Program[5]
- TUM IGL Innovation Competition Weihenstephan[5]

Sustainability Focus
- Global Entrepreneurship Summer School[3]
- Impact School[1]
- SEA MOOC: Social Entrepreneurship[3]

Learn how to manage a startup and drive innovation & change

Functional Skills
- Founder Legal Boot Camp[5]

Technical Skills
- Lecture Series: Additive Manufacturing[5+8]
- Clean Tech Microclasses[5]
- MakerSpace Courses[2]
- Quantum Fellowship Program[5]
- Software/AI Microclasses (Munich & Heilbronn)[5]

Transformative Skills
- Impact Entrepreneurship for Transformational Change[3]
- SEA MOOC: Enabling Entrepreneurs to Shape a Better World[3]
- SEA MOOC: Future Skills[3]
- Technology Entrepreneurship Lab[2]

Receive in-depth entrepreneurship training

Acquire entrepreneurial competencies in your study field

Explore entrepreneurial courses of international TUM partner universities

- CDTM Technology Management[7]
- Manage & More[2]
- See school-specific entrepreneurship offerings (TUM SOM, ERI)
- See EuroTeQ offerings

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1 TUM School of Management; 2 UnternehmerTUM; 3 Social Entrepreneurship Academy; 4 Junge Akademie; 5 TUM Venture Labs + Partners; 6 TUM School of Computation, Information and Technology; 7 CDTM; 8 TUM School of Engineering & Design; 9 TUM School of Natural Sciences

As a **master's student**, acquire entrepreneurial competencies in our various learning formats

TLM

Learn entrepreneurship basics	Develop & validate an innovative idea	Learn how to manage a startup and drive innovation & change	Graduate with impact

General

- Entrepreneurship (Muc, Heilbronn)[1]
- Entrepreneurship in a Digital Age[1]
- Innovative Entrepreneurs[2]
- Introduction to Entrepreneurship (Straubing)[1]
- SEA Start[3]
- Sustainable Venturing (Environmental Entrepreneurship)[1]

- Business Plan Basic Seminar[2]
- Entrepreneurial Prototyping[1]
- Innovation Sprint[2]
- Tech Challenge[2]
- Think Make Start[4]
- TUM Science Hackathon[5]

Functional Skills

- Founder Legal Boot Camp[6]
- How Digital Platforms Compete – Building and Sustaining Competitive Advantage[1]
- Managing Business Models, Growth, and Disruption[1]
- Scaling Entrepreneurial Ventures[1]

- Entrepreneurial Masterclass[1&2]

Domain Focus

- Entrepreneurship & Digital Innovation Summer School[1]
- GeneNovate[7]
- HackaTUM[7]
- Healthcare Innovation Program[6]
- Intelligent Machine Design Lab[6]
- MakeaTUM Bionics[6]
- Prototyping Entrepreneurial Ideas in New Tech: Blockchain[1+6]
- Quantum Entrepreneurship Laboratory[6+1+10]
- TUM IGL Innovation Competition Weihenstephan[6]

Technical Skills

- Lecture Series: Additive Manufacturing[6+9]
- AI for Innovation & Entrepreneurship[1]
- Clean Tech Microclasses[6]
- Digital Product School[2]
- Entrepreneurial Engineer in the Construction Industry[6+9]
- Entrepreneurial Opportunities in 6G Communication Network Technologies[6+7]
- MakerSpace Courses[2]
- Quantum Fellowship Program[6]
- Software/AI Microclasses (Munich & Heilbronn)[6]

Sustainability Focus

- Global Challenge Lab Hackathon[1]
- Global Entrepreneurship Summer School[3]
- Impact School[1]
- SEA MOOC: Social Entrepreneurship[3]
- Social Entrepreneurship Lab[1]
- Sustainable Energies and Entrepreneurship Summer School[1]

Transformative Skills

- ChangeMakers[1]
- Impact Entrepreneurship for Transformational Change[3]
- Principled Entrepreneurial Decisions[2]
- SEA MOOC: Enabling Entrepreneurs to Shape a Better World[3]
- SEA MOOC: Future Skills[3]
- Technology Entrepreneurship Lab[2]

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- CDTM Technology Management[8]
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- See EuroTeQ offerings

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As a **doctoral student**, acquire entrepreneurial competencies in our various learning formats

Learn entrepreneurship basics	Transform your research into an innovative product	Develop & validate an innovative idea	Learn how to manage a startup and drive innovation & change
Practical	**General**	**General**	**Functional Skills**
• Innovative Entrepreneurs[2] • Kick-Off Seminar – Entrepreneurship Focus[1+4] • SEA Start [3]	• From PhD to Innovator[5]	• Business Plan Basic Seminar[2] • Tech Challenge[2] • TUM Science Hackathon[8]	• Develop your entrepreneurial thinking[4] • Founder Legal Boot Camp[5] • Realizing Biotech Innovations - Business Guide for Scientists (MOOC)[9]
Theoretical	**Domain Focus**	**Domain Focus**	**Technical Skills**
• Contemporary Topics in Entrepreneurship and Family Enterprise[4] • Entrepreneurship for Sustainable Development[4] • Introduction to Entrepreneurship Research[4]	• Ammersee Venture School[5] • GeneNovate[5] • HackaTUM[8] • Idea Lab Quantum[5]	• Healthcare Innovation Program[5] • MakeaTUM Bionics[5]	• AI for Innovation & Entrepreneurship[1] • Clean Tech Microclasses[5] • Entrepreneurial Opportunities in 6G Communication Network Technologies[5+7] • Makerspace Courses[2] • Software/AI Microclasses (Munich & Heilbronn)[6] • TUM.Additive PhD Seminar[5]
		Sustainability Focus	**Transformative Skills**
		• SEA MOOC: Social Entrepreneurship[3]	• Impact Entrepreneurship for Transformational Change[3] • Leadership Talent Academy[2] • SEA MOOC: Enabling[3] Entrepreneurs to Shape a Better World[3] • SEA MOOC: Future Skills[3]

Receive in-depth entrepreneurship training
• Entrepreneurship Advisor (TUM staff only)[6]

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1 Graduate School; 2 UnternehmerTUM; 3 Social Entrepreneurship Academy; 4 TUM School of Management; 5 TUM Venture Labs + Partners; 6 TUM IL3; 7 TUM School of Computation, Information and Technology; 8 Junge Akademie; 9 TUM Project; 10 TUM School of Natural Sciences

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As a **scientist with a doctoral degree**, acquire entre-preneurial competencies in our various learning formats

Learn entrepreneurship basics	Transform your research into an innovative product	Develop & validate an innovative idea	Learn how to manage a startup and drive innovation & change

Practical
- SEA Start [1]

General

Domain Focus
- Healthcare Innovation Program[3]

Functional Skills
- Founder Legal Boot Camp[3]
- Realizing Biotech Innovations - Business Guide for Scientists (MOOC)[7]

Theoretical
- Contemporary Topics in Entrepreneurship and Family Enterprise[2]
- Entrepreneurship for Sustainable Development[2]
- Introduction to Entrepreneurship Research[2]

Domain Focus
- Ammersee Venture School[3]
- GeneNovate[3]
- HackaTUM[5]
- Idea Lab Quantum[3]

Sustainability Focus
- SEA MOOC: Social Entrepreneurship[1]

Technical Skills
- Clean Tech Microclasses[3]
- Makerspace Courses[8]
- Software/AI Microclasses (Munich & Heilbronn)[3]
- TUM.Additive PhD Seminar[3]

Transformative Skills
- Impact Entrepreneurship for Transformational Change[1]
- Leadership Talent Academy[8]
- SEA MOOC: Enabling Entrepreneurs to Shape a Better World[1]
- SEA MOOC: Future Skills[1]

Receive in-depth entrepreneurship training
- Entrepreneurship Advisor (TUM staff only)[9]

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As a (**young) professional**, acquire entrepreneurial competencies in our various learning formats

Learn entrepreneurship basics	Develop & validate an innovative idea	Learn how to manage a startup and drive innovation & change

	Domain Focus	**Functional Skills**
• SEA Start [1]	• Entrepreneurship & Digital Innovation Summer School[2] • HackaTUM[3] • Healthcare Innovation Program[4]	• Founder Legal Boot Camp[4] • Realizing Biotech Innovations - Business Guide for Scientists (MOOC)[5]

	Sustainability Focus	**Technical Skills**
	• SEA MOOC: Social Entrepreneurship[1] • Sustainable Energies and Entrepreneurship Summer School[2]	• Clean Tech Microclasses[4] • Digital Product School[6] • Makerspace Courses[6] • Software/AI Microclasses (Munich & Heilbronn)[4]

		Transformative Skills
		• Impact Entrepreneurship for Transformational Change[1] • Leadership Talent Academy[6] • SEA MOOC: Enabling Entrepreneurs to Shape a Better World[1] • SEA MOOC: Future Skills[1]

Receive in-depth entrepreneurship training

- Entrepreneurship Advisor (TUM staff only)[7]
- EMBA Innovation & Business Creation (Entrepreneurship Focus)[2+6+7]
- EMBA General (Entrepreneurship Core Module & Elective)[2+7]
- EMBA Business & Technology (Entrepreneurship Core Module) [2+7]
- Master in Management & Innovation[2+7]

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TUM highly values and fosters **entrepreneurial competencies** in many dimensions

TUM. The Entrepreneurial University

Innovation through talent, excellence and responsibility

Our Mission

We inspire, promote and develop talents in all their diversity to become responsible, broad-minded individuals and empower them to shape the progress of innovation for people, nature and society with the highest scientific standards and technological expertise, with entrepreneurial courage and sensitivity to social and political issues, as well as a lifelong commitment to learning.

Our Vision

As a leading entrepreneurial university, we are a site of global knowledge exchange, shaping the future with talent, excellence and responsibility.

TUM Entrepreneurship

The Technical University of Munich is one of the most successful start-up universities in Europe.

Our Core Values

Entrepreneurial Mindset: We question the consequences of our actions, direct ourselves toward new challenges and improve our working methods continually. To this end, we commit ourselves to socially reflected innovations and promote their commercial application, as well as to sustainable technology spin-offs at all levels.

78	11	20
Founded companies in 2022	TUM Venture Labs	Unicorns from TUM researchers & alumni

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Source: www.tum.de

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The interplay of TUM, TUM Venture Labs, and Unter-nehmerTUM creates a **unique entrepreneurial ecosystem**

Entrepreneurship Research Institute
- Practical/Theoretical courses
- Project studies & theses supervision
- Research
- Student (exchange) programs

TUMentrepreneurship
- Startup & IP consulting
- Events, awards, competitions
- Incubation & mentoring

Across TUM Schools
- Study program specific entrepreneurship courses

12 Domain-specific Innovation Hubs
- Domain expert network
- Labs & co-working spaces
- Domain-specific events, programs, competitions, training & guidance

Education & Networking
- Practical courses & training
- Student (exchange) programs
- Events & innovation topic initiatives

Startup Support
- Pre-incubation, incubation & acceleration programs
- High-tech workshop Makerspace
- Prototyping grants & venture capital

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Sources: www.ie.mgt.tum.de/en/ent/home; www.tum.de/en/innovation/entrepreneurship; www.tum-venture-labs.de/offerings/founders-and-teams; www.unternehmertum.de/angebot

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Exploring and learning how to be entrepreneurial at TUM paves a **variety of exciting career paths**

Possible career paths for entrepreneurial talents

Create / Work in a startup	**Be an intrapreneur**	**Manage a family business**	**Own a small business**
Work in an NGO	**Be a politician**	**Be a business consultant**	**Work in the startup ecosystem**
Be an inventor	**Be a leader / change maker**	**Be a researcher / educator**	**+++**

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Be **inspired**, **experience**, **connect**, and **learn** about the multiple facets of entrepreneurship

Events & Initiatives

TUM ENTREPRENEURSHIP DAY

UNTERNEHMER TUM

CDTM CENTER FOR DIGITAL TECHNOLOGY AND MANAGEMENT

TUM Student Clubs

TUM VENTURE LABS

Awards & Competitions

Presidential Entrepreneurship Award

TUM IDEAward Award Ceremony & Event

TUM Entrepreneurs of Excellence

Pitch Perfect

Founders & Startups

TUM Founder's Talk

Start-up Meet & Talk
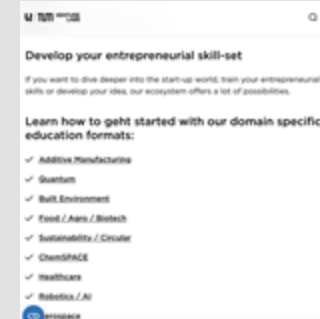
Entrepreneurship News

TUM Start-up Wall

Research

- Entrepreneurial **behavior & cognition**
- Entrepreneurial **education** & **management**
- **International** entrepreneurship
- **Communities** & **ecosystems**
- **Innovation** & **organization design**

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Check out our entrepreneurial education offering **websites**
(click website image or scan QR code)

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