15 Faculty Members
37% women
2/5 personnel paid from 3rd party funds
61 Total Master graduates
49 Number of organized seminars

FOCAL AREAS

**MANAGEMENT**
- Optimization
- Business analytics
- Entrepreneurial strategies
- Management of innovation
- Technology commercialization
- Operations & supply chain management

**POLICY**
- Energy policy
- Environmental policy
- Green economy
- IP policy
- Technology policy
- Transport policy

**FINANCE**
- Asset pricing
- Corporate finance
- Financial economics
- Financial engineering
- Macroeconomics
- Risk management
MARC GRUBER
Full Professor
Chair of Entrepreneurship & Technology Commercialization (ENTC)

Key words
• Entrepreneurship
• Technology commercialization
• Innovation
• Strategic management
• Public policy

THOMAS WEBER
Associate Professor
Chair of Operations, Economics & Strategy (OES)

Key words
• Credit collections
• Decision making under risk
• Economics (behavioral, environmental, theory)
• Engineering economy
• Investment criteria
• Nonlinear systems
• Optimal control
• Risk
• Sharing economy

DANIEL KUHN
Full Professor
Chair of Risk Analytics & Optimization (RAO)

Key words
• Decision-making under uncertainty
• Stochastic programming & robust optimization
• Uncertainty quantification

PHILIPPE WIESER
Adjunct Professor
Chair of Logistics, Economics & Management (LEM)

Key words
• Supply chain strategies
• Digital supply chain
• Supply chain innovation
• Flows and resources optimization
• Management of hospital systems
• Project management

RALF SEIFERT
Full Professor
Chair of Technology & Operations Management (TOM)

Key words
• Supply chain strategy
• Supply chain finance
• Technology network management and entrepreneurship

KENNETH YOUNGE
Associate Professor
Chair of Technology & Innovation Strategy (TIS)

Key words
• Strategic management
• Technology and innovation strategy
• Employee mobility
• New venture creation
• Data science

CHRISTOPHER TUCCI
Full Professor
Chair of Corporate Strategy & Innovation (CSI)

Key words
• Entrepreneurship and corporate venture capital
• Business model innovation
• Technology strategy
• Technological entry, product development, and «creative destruction»
• Technology policy
• Internet strategy of entrants and incumbents
• «Crowdsourcing» / Web2.0 and innovation
• Corporate governance and innovation
PIERRE COLLIN-DUFRESNE
Full Professor
Professor of Finance
Key words
• Credit & liquidity risk
• Optimal asset allocation
• Pricing & hedging

DOMINIQUE FORAY
Full Professor
Chair of Economics & Management of Innovation (CEMI)
Key words
• Economics of innovation
• Science and technology indicators
• Innovation & development
• Smart specialization

JEAN-PIERRE DANTHINE
Adjunct Professor
Professor of Finance
Key words
• Central banking
• Financial crisis
• Business cycle and growth
• Regulation

RÜDIGER FAHLENBRACH
Associate Professor
Professor of Finance
Key words
• Corporate finance & governance
• Causes & consequences of the recent financial crisis
• Banking regulation

DAMIR FILIPOVIC
Full Professor
Swissquote Chair in Quantitative Finance
Key words
• Quantitative finance
• Risk & insurance
• Quantitative risk management

BRUNO OBERLE
Adjunct Professor
Chair of Green Economy & Resource Governance (GERG)
Key words
• Green economy
• Environmental governance
• Sustainability transitions

GAËTAN DE RASSENFOSSE
Assistant Professor (Tenure Track)
Chair of Innovation & IP Policy (IIPP)
Key words
• Economics of innovation
• Intellectual property policy
• Science of science

LUISA LAMBERTINI
Full Professor
Chair of International Finance (CFI)
Key words
• Macroeconomics
• International finance
• Monetary & fiscal policy

SEMYON MALAMUD
Associate Professor
Professor of Finance
Key words
• Portfolio selection
• Non-linear filtering
• Liquidity and asset prices

ERWAN MORELLEC
Full Professor
Professor of Finance
Key words
• Real options
• Financing & capital structure decisions
• Liquidity management
• Risk management
• Economics of innovation et corporate governance
### PERSONNEL BY CATEGORY (FTE)

<table>
<thead>
<tr>
<th>Category</th>
<th>TOTAL</th>
<th>% WOMEN</th>
<th>BUDGETARY FUNDS</th>
<th>3RD PARTY FUNDS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Professors</strong></td>
<td>14.9</td>
<td>7%</td>
<td>13</td>
<td>2</td>
</tr>
<tr>
<td>Full professors</td>
<td>9.2</td>
<td>11%</td>
<td>7.3</td>
<td>2</td>
</tr>
<tr>
<td>Associate professors</td>
<td>4.7</td>
<td>0%</td>
<td>4.7</td>
<td>0</td>
</tr>
<tr>
<td>Assistant professors</td>
<td>1</td>
<td>0%</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td><strong>Scientific staff</strong></td>
<td>65.45</td>
<td>32%</td>
<td>33</td>
<td>32.5</td>
</tr>
<tr>
<td>Adjunct professors</td>
<td>2.5</td>
<td>0%</td>
<td>1.5</td>
<td>1</td>
</tr>
<tr>
<td>Senior scientists / postdocs</td>
<td>16.45</td>
<td>38%</td>
<td>7</td>
<td>9.5</td>
</tr>
<tr>
<td>PhD students</td>
<td>46.5</td>
<td>31%</td>
<td>24.5</td>
<td>22</td>
</tr>
<tr>
<td><strong>Administrative &amp; technical staff</strong></td>
<td>21.2</td>
<td>75%</td>
<td>15.4</td>
<td>5.8</td>
</tr>
<tr>
<td>Administrative staff</td>
<td>17.2</td>
<td>92%</td>
<td>12.4</td>
<td>4.8</td>
</tr>
<tr>
<td>Technical staff</td>
<td>3</td>
<td>0%</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Apprentices</td>
<td>1</td>
<td>0%</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>101.55</td>
<td>37%</td>
<td>61.40</td>
<td>40.15</td>
</tr>
</tbody>
</table>
Master Programs (MFE-MTE)

Academic Year 2017/2018

<table>
<thead>
<tr>
<th></th>
<th>MTE Management, Technology &amp; Entrepreneurship</th>
<th>MFE Financial Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications</td>
<td>202</td>
<td>175</td>
</tr>
<tr>
<td>Admissions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enrollments</td>
<td>34</td>
<td>26</td>
</tr>
<tr>
<td>With an EPFL degree</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Minor Students</td>
<td>235</td>
<td>24</td>
</tr>
<tr>
<td>Exchange students</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Gender**

- **MTE**
  - Female/Total: 13/34 (38%)
- **MFE**
  - Female/Total: 6/26 (23%)

**Nationality**

- **MTE**
  - Switzerland: 7 (21%)
  - Europe without Switzerland: 17 (50%)
  - Asia: 9 (26%)
  - Africa: 1 (3%)
- **MFE**
  - Switzerland: 1 (4%)
  - Europe without Switzerland: 18 (69%)
  - Asia: 2 (8%)
  - Africa: 2 (8%)

**Educational background**

- **MTE**
  - Physics: 2 (6%)
  - Mechanical eng.: 1 (3%)
  - Mathematics: 4 (12%)
  - Materials science & eng.: 2 (6%)
  - Life sciences & technol. & bioeng.: 3 (9%)
  - General engineering: 5 (14%)
  - Electrical eng. & electronics: 1 (3%)
  - Economics & finance: 2 (6%)
  - Computer science & com. systems: 5 (14%)
  - Civil eng. & Environmental eng.: 6 (18%)
  - Chemistry & chemical eng.: 3 (9%)
  - Others: 3 (9%)
- **MFE**
  - Physics: 4 (15%)
  - Mathematics: 10 (38%)
  - Mechanical eng.: 1 (4%)
  - General engineering: 6 (23%)
  - Computer science & com. systems: 3 (12%)
  - Economics & finance: 1 (4%)
  - Others: 1 (4%)

**EPFL COLLEGE OF MANAGEMENT OF TECHNOLOGY FACTS & FIGURES 2018**
MTE & MFE Minor students by EPFL section

- AR - Architecture: MTE 6, MFE 4
- CGC – Chemistry & Chemical eng.: MTE 4, MFE 3
- EL - Electrical Engineering: MTE 5, MFE 6
- EME – Energy management & sustainability: MTE 1, MFE 2
- GC - Civil Engineering: MTE 4, MFE 2
- GM - Mechanical Engineering: MTE 51, MFE 1
- IN - Computer Science: MTE 6, MFE 6
- MA - Mathematics: MTE 6, MFE 6
- MT - Microengineering: MTE 1, MFE 1
- MX - Materials Science: MTE 20, MFE 10
- PH - Physics: MTE 10, MFE 2
- SC - Communication Science: MTE 36, MFE 10
- SIE - Environmental Science & Engineering: MTE 9, MFE 1
- SV - Life sciences & Technology: MTE 21, MFE 1

Total MTE 235
Total MFE 24
Doctoral Programs (EDFI, EDMT)

SEPTEMBER 2018

<table>
<thead>
<tr>
<th></th>
<th>EDMT Management of Technology</th>
<th>EDFI Financial engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications</td>
<td>233</td>
<td>215</td>
</tr>
<tr>
<td>Enrollments</td>
<td>6</td>
<td>3</td>
</tr>
</tbody>
</table>

EDMT
Management, Technology & Entrepreneurship

Gender (overall graduates since inception)
- Female/Total: 44/118 (37%)
- Female/Total: 7/44 (16%)

Nationality (overall graduates since inception)
- Switzerland: 24 (20%)
- Europe without Switzerland: 56 (49%)
- Asia: 23 (20%)
- Africa: 1 (1%)
- Americas: 12 (10%)
- Switzerland: 14 (32%)
- Europe without Switzerland: 25 (57%)
- Asia: 4 (9%)
- Africa: 1 (2%)

Career (overall graduates since inception)
- Academic: 25 (44%)
- Industry: 40 (51%)
- Public Organization: 4 (5%)
- Academic: 13 (57%)
- Industry: 9 (39%)
- Public Organization: 1 (4%)

Number of Thesis awarded in 2018
- EDMT: 7
- EDFI: 3
MOOCs

Running / Ending

<table>
<thead>
<tr>
<th>MOOC Name</th>
<th>Professor in charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management of Urban Infrastructures</td>
<td>Matthias Finger</td>
</tr>
<tr>
<td>Smart Cities – Management of Smart Urban Infrastructures</td>
<td>Matthias Finger</td>
</tr>
<tr>
<td>Launching New Ventures (English, French &amp; Chinese versions)</td>
<td>Christopher Tucci and Marc Gruber</td>
</tr>
<tr>
<td>Designing a Smart Specialisation Strategy (English &amp; French versions)</td>
<td>Dominique Foray</td>
</tr>
<tr>
<td>(1st “pay to get in” MOOC of EPFL)</td>
<td></td>
</tr>
<tr>
<td>Interest Rate Models</td>
<td>Damir Filipovic</td>
</tr>
<tr>
<td>Find the right markets for your innovation - A tool for entrepreneurs and innovators for choosing which markets to play in.</td>
<td>Marc Gruber and Sharon Tal</td>
</tr>
<tr>
<td>Global Arctic</td>
<td>Matthias Finger</td>
</tr>
</tbody>
</table>

In preparation

<table>
<thead>
<tr>
<th>MOOC Name</th>
<th>Professor in charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Economy</td>
<td>Thomas Weber</td>
</tr>
<tr>
<td>Social Entrepreneurship</td>
<td>Marc Gruber, Julia Binder and Nettra Pan</td>
</tr>
</tbody>
</table>

Executive Education

Executive Masters

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Since</th>
<th>Average number of students per class</th>
<th>Graduates students since inception</th>
</tr>
</thead>
<tbody>
<tr>
<td>Global Supply Chain Management</td>
<td>1993</td>
<td>20-25</td>
<td>over 1200</td>
</tr>
<tr>
<td>EPFL Executive MBA (EPFL EMBA)</td>
<td>1998</td>
<td>30</td>
<td>593</td>
</tr>
<tr>
<td>Innovative Governance of Large Urban Systems (IGLUS)</td>
<td>2014</td>
<td>20</td>
<td>27</td>
</tr>
</tbody>
</table>

Certificates of Advanced Studies

Global Supply Chain Management (10 ECTS)
Healthcare Supply Chain Management (12 ECTS)
Management of Biotech, Medtech, Pharma Ventures (10 ECTS)
### Expenditures in 2018

<table>
<thead>
<tr>
<th></th>
<th>Amount</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Federal funds</strong></td>
<td>10,299,293</td>
<td>67%</td>
</tr>
<tr>
<td><strong>Executive education / MOOC’s</strong></td>
<td>1,392,999</td>
<td>9%</td>
</tr>
<tr>
<td><strong>Sponsored chairs</strong></td>
<td>2,050,781</td>
<td>13%</td>
</tr>
<tr>
<td><strong>SNSF</strong></td>
<td>991,020</td>
<td>6%</td>
</tr>
<tr>
<td><strong>Industry grants</strong></td>
<td>326,955</td>
<td>2%</td>
</tr>
<tr>
<td><strong>European programs</strong></td>
<td>216,752</td>
<td>1%</td>
</tr>
<tr>
<td><strong>Innosuisse (SCCER)</strong></td>
<td>52,507</td>
<td>0.3%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15,330,307</td>
<td>100%</td>
</tr>
</tbody>
</table>

---

### Publications

#### Journals


### Books & Book Chapters


Creating and capturing value through crowdsourcing. A. Afuah, **C. L. Tucci** and **G. Viscusi**. Oxford, Oxford University Press, 2018.

**Economie de la Connaissance**. **D. Foray**. 2018.


PhD Theses


For their own good and for the good of others: identity duality in new venture evaluation and investor decision-making. N. D. Pan, M. Gruber (Dir.), EPFL Lausanne. 2018.


