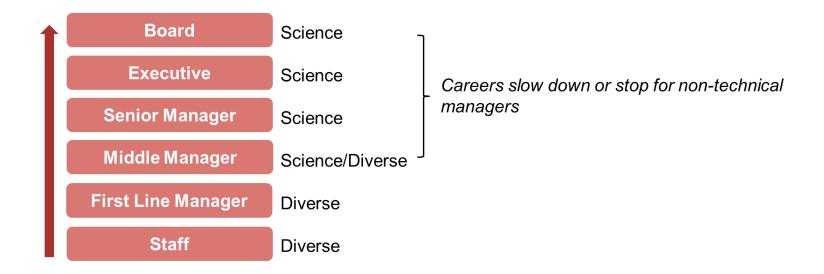


MAS ETH in Applied Technology Concept and Programme

Ulrike Grossner and Maria Polito Online Information Event 17 March 2021, 18:00-19:30

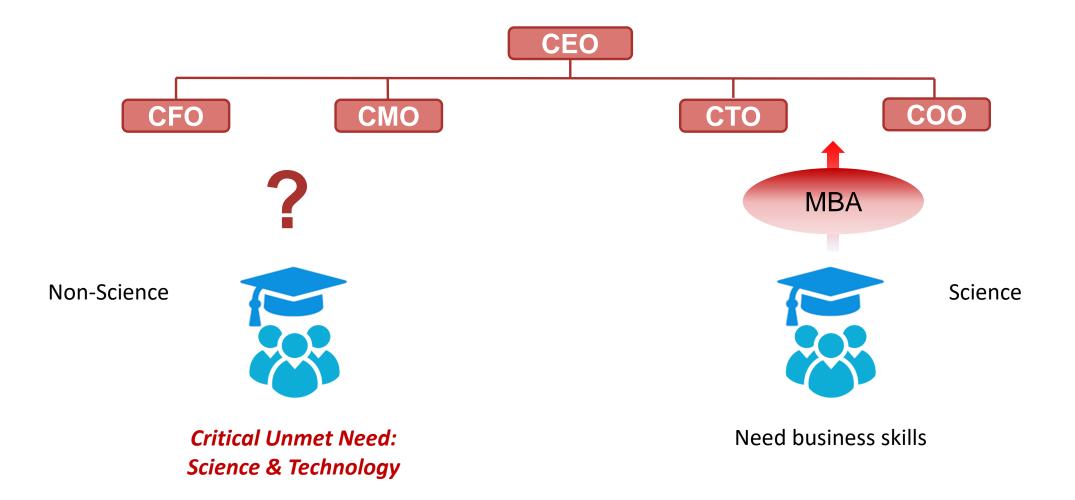
Developed in Response to Industry Request

• Career advancement in technology companies

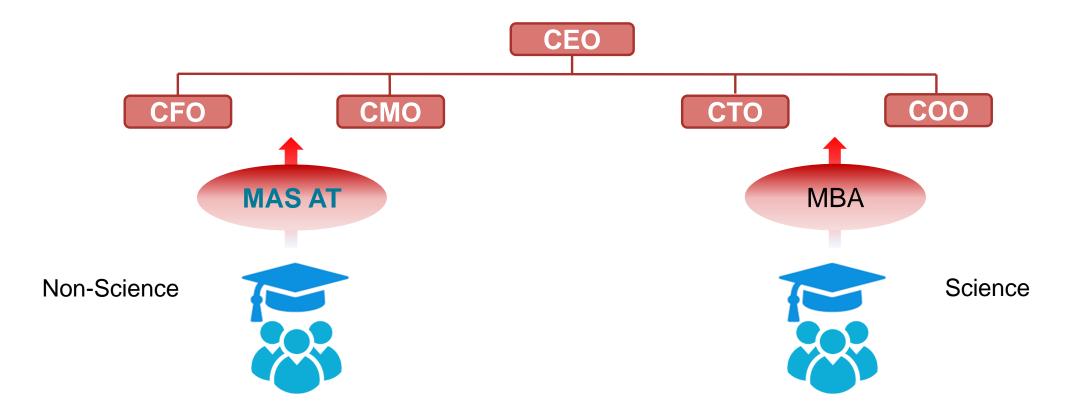


- Problem: Lack of qualified candidates for senior management in technology companies
 - Science and technology qualifications are missing
 - Existing education and training options are inadequate

Gap in Continuing Education Market



Created based on Industry Request: The MAS Applied Technology



Provides science & technology knowledge and innovation skills



Programme Concept – Goals

- Continuing education degree enabling graduates to
 - Understand the scientific aspects behind the most important technologies in their industry
 - Collaborate more effectively with technical experts and managers in order to provide interdisciplinary, technology-based solutions to industry problems
 - Better lead technical staff and technology-based companies

Target Participants

- Experienced managers
- In technology companies or industries
- Non-science or single science Master's degree
- Promotion Potential



Example Participant – Marketing Manager



12 years – Manufacturing Manages groups in 3 EU countries Masters in Marketing & Communication Supervisor & HR Feedback

- Next level will require more interdepartmental collaboration
- Should improve understanding of operations and engineering

Personal Goals

- Improve product design
- Understand opportunities created by technology

Example Participant – Finance Manager



6 years – Electronics Industry First Line Manager, Finance Dept. Masters in Finance Supervisor & HR feedback

- Excellent with numbers
- Look beyond the numbers and help the company be more innovative, especially in its use of technology

Personal Goals

- Stronger relationships with technical managers in the business unit
- Not feel lost in technical conversations

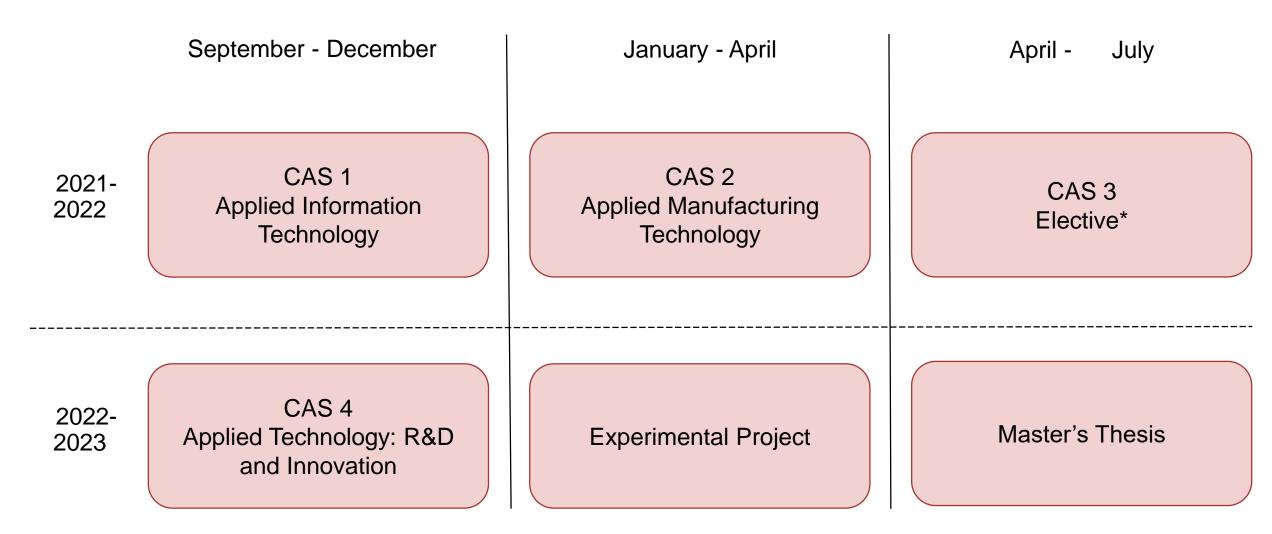
MAS AT Program Structure

MAS	Applied Technology	66 ECTS
CAS 1	Applied Information Technology	12 ECTS
CAS 2	Applied Manufacturing Technology	12 ECTS
CAS 3	Applied Technology Elective*	12 ECTS
CAS 4	Applied Technology: R&D and Innovation	10 ECTS
Experimental Project		10 ECTS
Master's Thesis		10 ECTS

Available CAS 3 Electives for 2022:

- CAS Applied Technology in Energy
- CAS Applied Electronics and Digitalization

MAS AT Study Plan



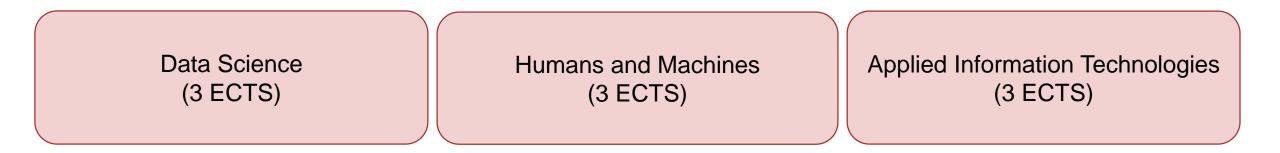
* Participants select from available options

CAS 1 – Applied Information Technology

E-tutorials (14 weeks)

Foundations of Programming (3 ECTS)

Block Format (4 weeks each)



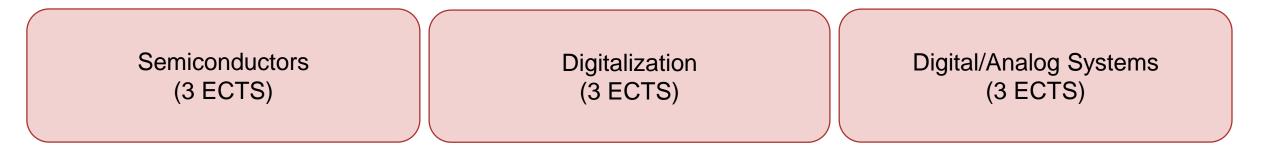


New CAS 3 Elective: Applied Electronics and Digitalization

E-tutorials (14 weeks)

Electronics Fundamentals (3 ECTS)

Block Format (4 weeks each)



Note: this CAS is still under development and content is subject to change.

Experimental Project

- Goal
 - Explore and improve understanding of a specific subject or technology
 - Better appreciation of typical problems during technology development
- Project Options
 - ETH supervised project (ETH Lab)
 - Participant designed (with prior written approval of MAS AT)
- ETH Advisor
 - Assigned based on project selection
 - Meet during CAS 4 for advance planning

Master's Thesis

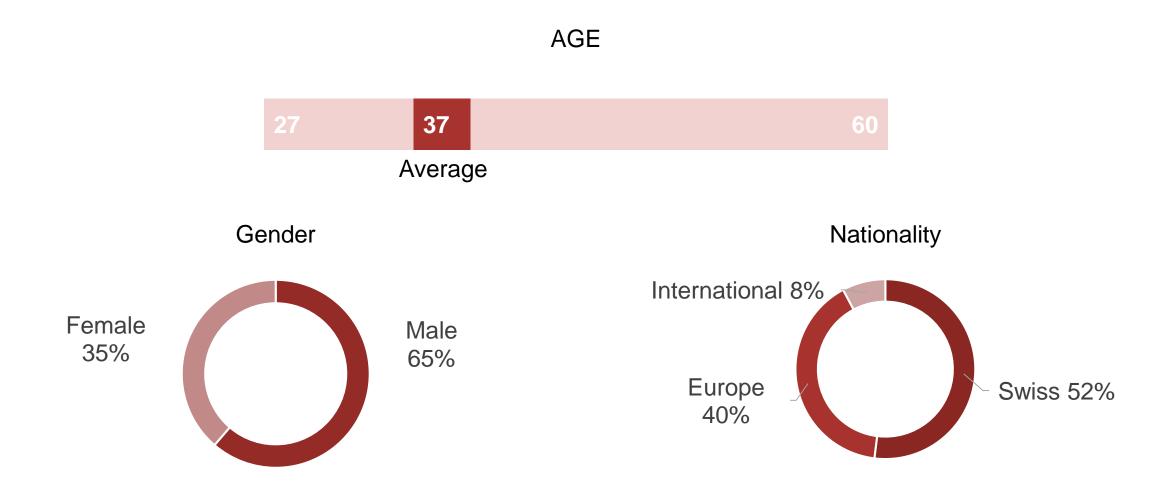
- Subject
 - Evaluate a technology application to solve a real industry problem
 - Problem and technology freely selectable (with Advisor approval)
- Key Points
 - Integrative of material and skills learned in programme
 - Must be sufficiently rigorous from science and technology perspective
 - Other information (policy, market, etc.) should be context only, not the focus
 - Start early!
- ETH Advisor
 - Ideally, same advisor as experimental project
 - Meet during CAS 4 for advance planning

MAS in Applied Technology - Key Facts

- Program Duration
- Format
- Language
- Next Start
- Time Commitment

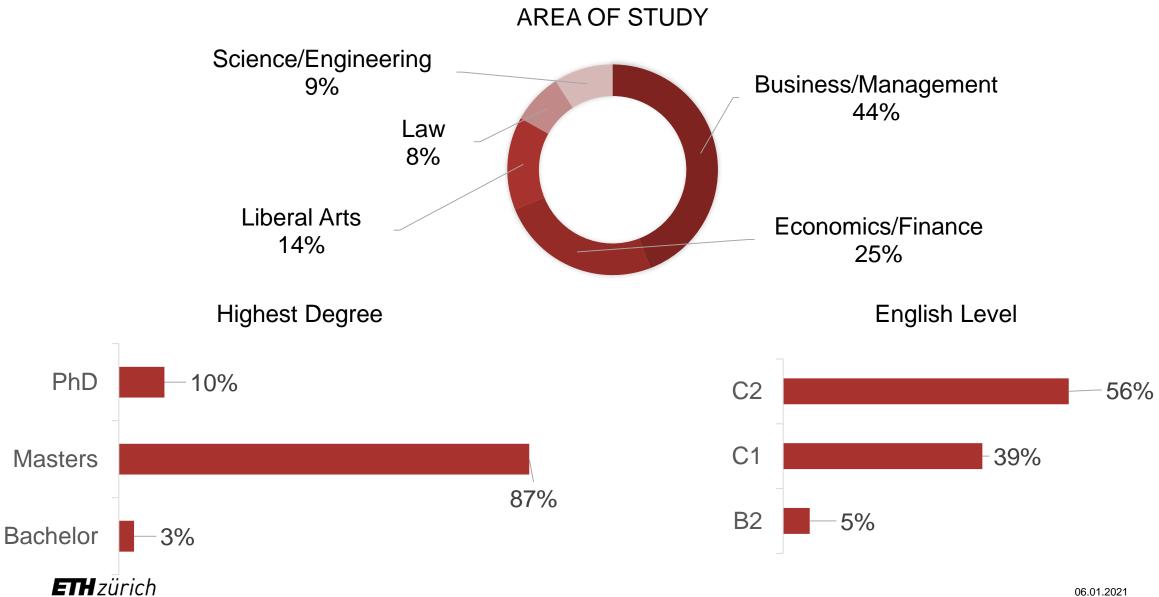
- 2 Years, Part-Time
 - In presence & online
 - 2-day block, every other week
- 100% English
- September 2021
- ~250-300 hours/CAS
- ~20 hours/week

2020-21 Participant Profile* – Personal Background



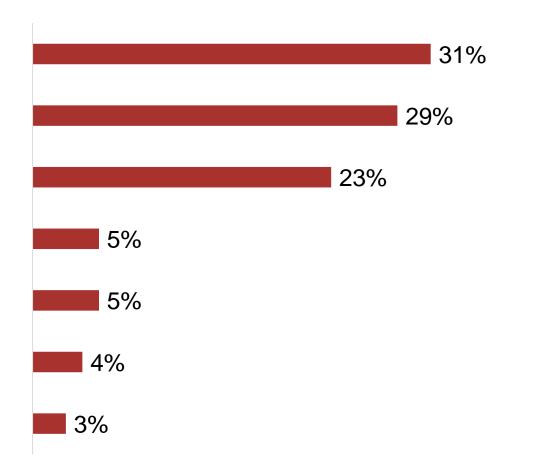
*Includes all MAS and CAS Participants

2020-21 Participant Profile – Academic Background



2020-21 Participant Profile – Industry

Industry Sector



Finance & Insurance

Services (consulting, law, web-based, transportation, construction, etc.) Industrial & Technology (manufacturing, automotive, telecom, software, etc.)

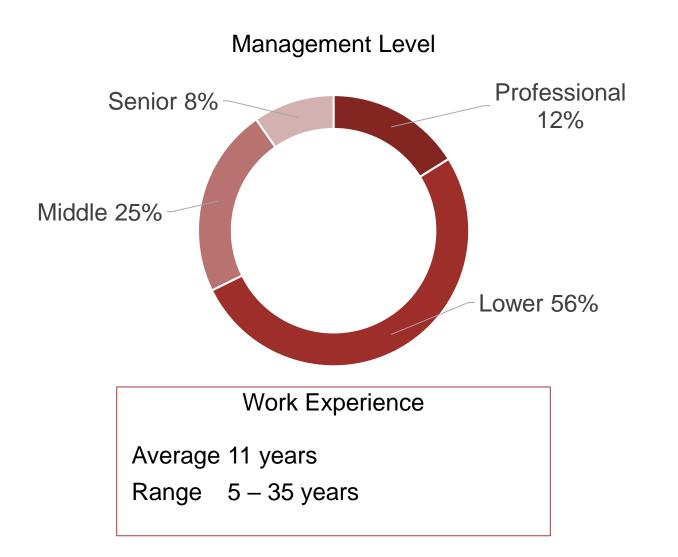
Government

Food & Retail

Health & Pharma

Education

2020-21 Participant Profile – Experience



Example Titles Director Vice President Head Program Manager **Product Manager** Sales Manager **Project Manager** Lead Controller Consultant Analyst

Application Deadlines 2021-2022

- MAS AT May 31
- CAS AIT May 31
- CAS AMT November 15
- CAS ATE February 28

Important Notes:

- Class sizes are limited
- MAS AT participants have priority for admission to CAS
- CAS AIT applicants will be notified of admission decisions only after MAS AT admissions are finalized, most likely in July

Submitting Your Application

- 1. Online Application
 - (ETH eApply)



2. Print, Sign & Mail the application (+ supporting documents) to SCE



Supporting Documents

- Degree certificate and final academic record (transcript from your university)
- References of your working experience
- Identity documentation
- CV or work history (in application form)
- Employer recommendation letter Suggested

MAS AT Application Review

1. Initial Screening – School for Continuing Education

2. Review and Selections – Programme Management

3. Final Decision and Notification – School for Continuing Education

Initial Screening of Applications

- Application is complete
- Satisfy minimum criteria
 - Education
 - Special case: Bachelor's degree
 - Work experience
 - Knowledge of English language

Programme Review & Selection of Applications

- Good Fit: Participant Programme
 - Match target profile or equivalent fit
 - Relevant experience and motivation
- Likely to successfully complete the programme
 - Look at complete dossier: education, experience, training, etc
- Career potential
 - Career to date & employer recommendation
- General balance
 - Goal rich peer learning experience, network opportunities

Admission Decision

- Notified by letter from SCE
- Typically ~1-2 months prior to start of the program
- No need to confirm your participation
- Withdrawal: written notification by date in SCE letter
- · Late withdrawal is subject to a fee

Fees

- Application
 - 50 CHF (applicants with a Swiss degree)
 - 150 CHF (applicants from other universities)
- Tuition
 - MAS: 39'000 CHF
 - CAS: 8'500 CHF
- Books & materials not included

Further Information

Website

www.mas-at.ethz.ch

Contact

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