

SPACE

INNOVATION GROWTH COOPERATION

EMILSVANBERG

INNOVATION SUPPORT SYSTEM FOR SPACE

RIT2021 WORK PACKAGES

R&D PROJECTS

Current PhD:s

New PhD:s

Postdocs

TESTBED SPACE

SpaceLab

New Business Models

Commercialization

INNOVATION SUPPORT

New Methods
New Processes
New Business Cases
Students in action

CLUSTER BUILDING

Aerospace Business

Networking

Collaboration

Training Programmes



THE CHALLENGE

+50 YEARS OF SPACE - SERIOUS DROUGHT





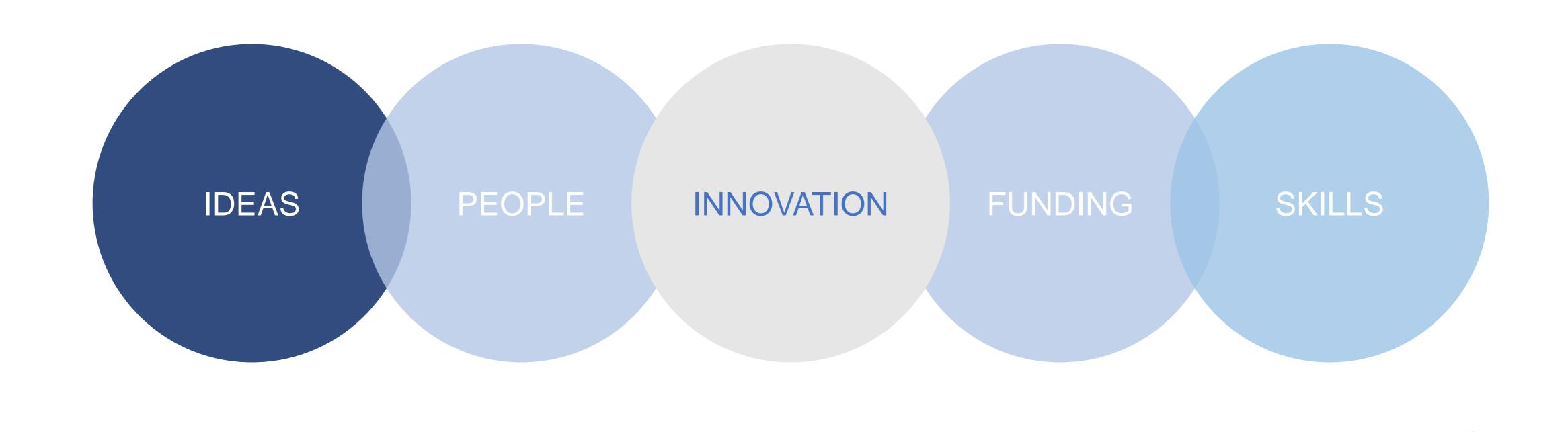
THE CHALLENGE

+50 YEARS OF SPACE - SERIOUS DROUGHT





INNOVATION SUPPORT SYSTEM



ENABLING
ACTIVITIES
AND ASSETS

1. COORDINATION

- 3. INFRASTRUCTURE
- 5. COLLABORATION

2. INSPIRATION

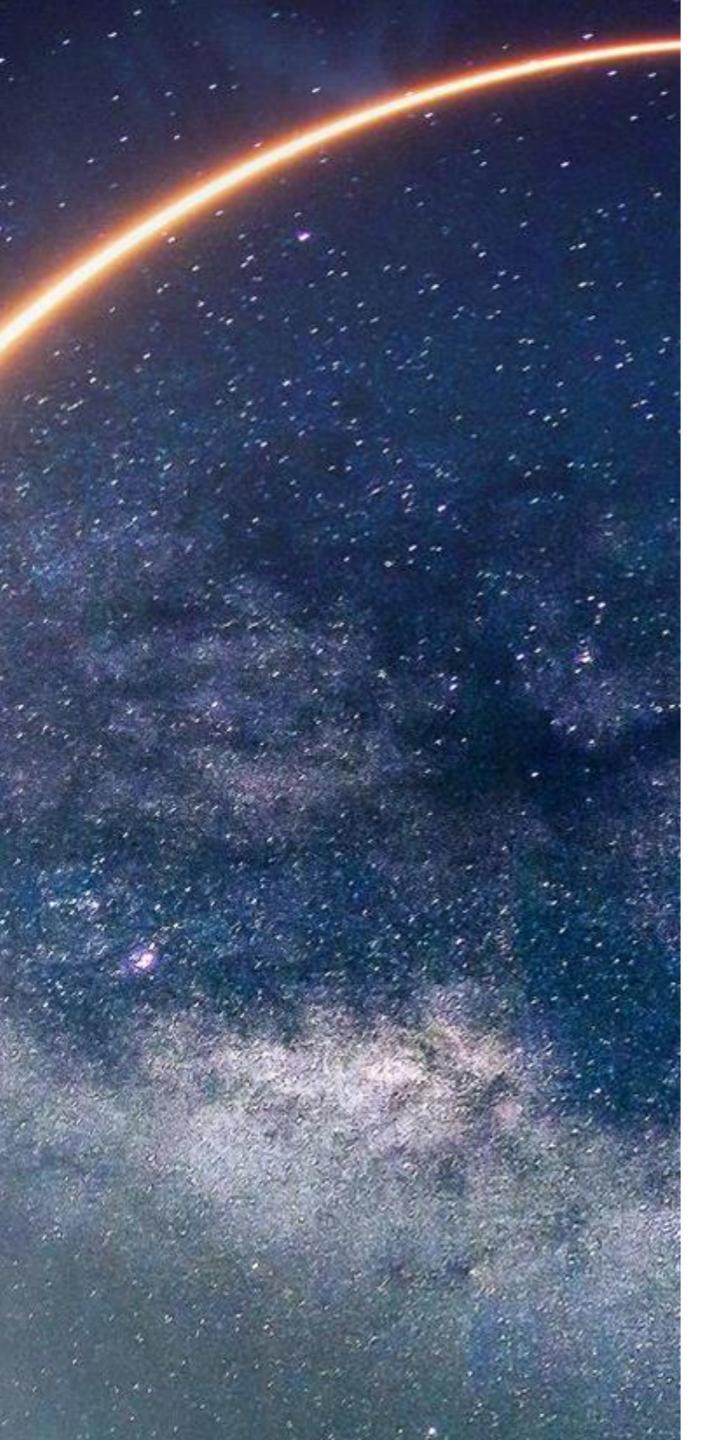
4. NETWORKING



NUTRITION AND ENERGY









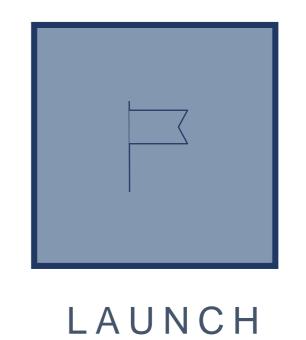
ACTORS & ROLES



















ACTIVITIES

INNOVATION SUPPORT

ACTIVITY

TARGET GROUP

Innovation PostDoc's

Summer Programs

Continuous Support Services

Innovation Management Program

Space industry, PhD students

SMEs, Researchers, Students

SMEs, Startups, Entrepreneurs, Innovators, Students, Researchers

SMEs



SPACE INNOVATION SUMMER



PROJECTS SPACE FLAVOUR

SME CHALLENGES

LTU / IRF RESEARCH

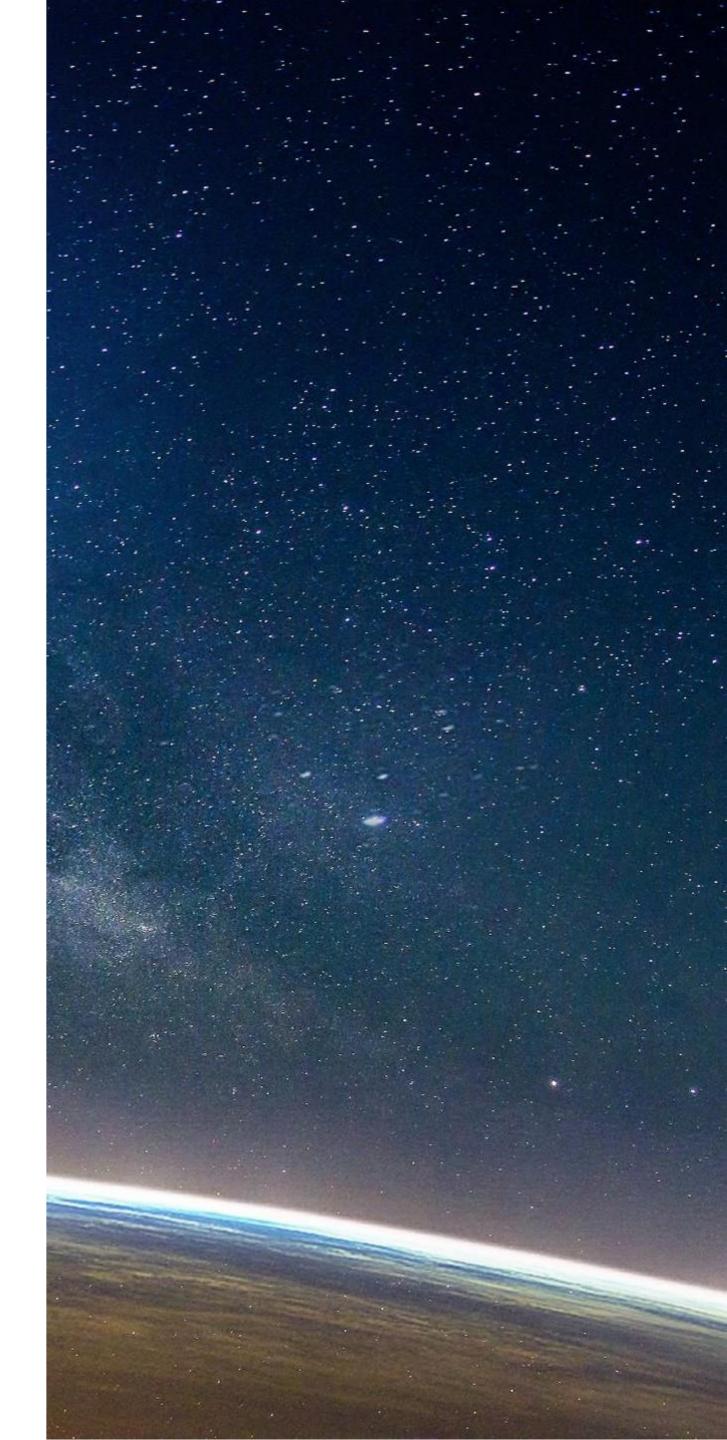
STUDENT IDEAS

PAID SUMMER JOBS

INNOVATION FOCUS

PROCESS & COACHING

TEAMS OF STUDENTS



EXAMPLE PROJECT #1

ICE BLOCK

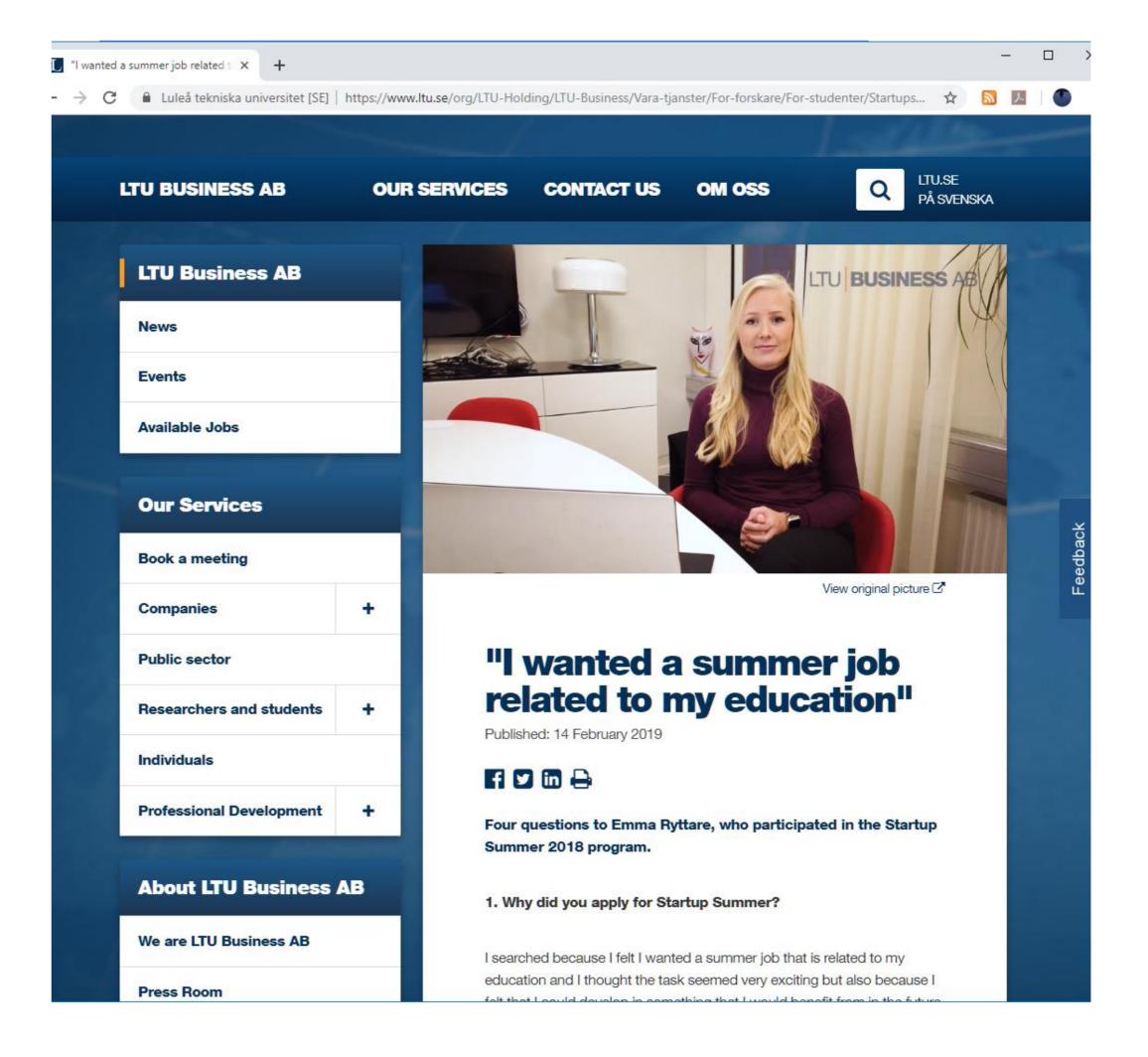
SUMMER STARTUP PROGRAM 2018
STUDENTS WORKING ON A RESEARCH IDEA

AUTOMATION CONTROL & DISTRIBUTED PROGRAMMING

Professor Valeriy Vyatkin with two PhD students behind research based idea now enrolled with Arctic Business Incubator.

Student from summer program works for the company.





EXAMPLE PROJECT #2

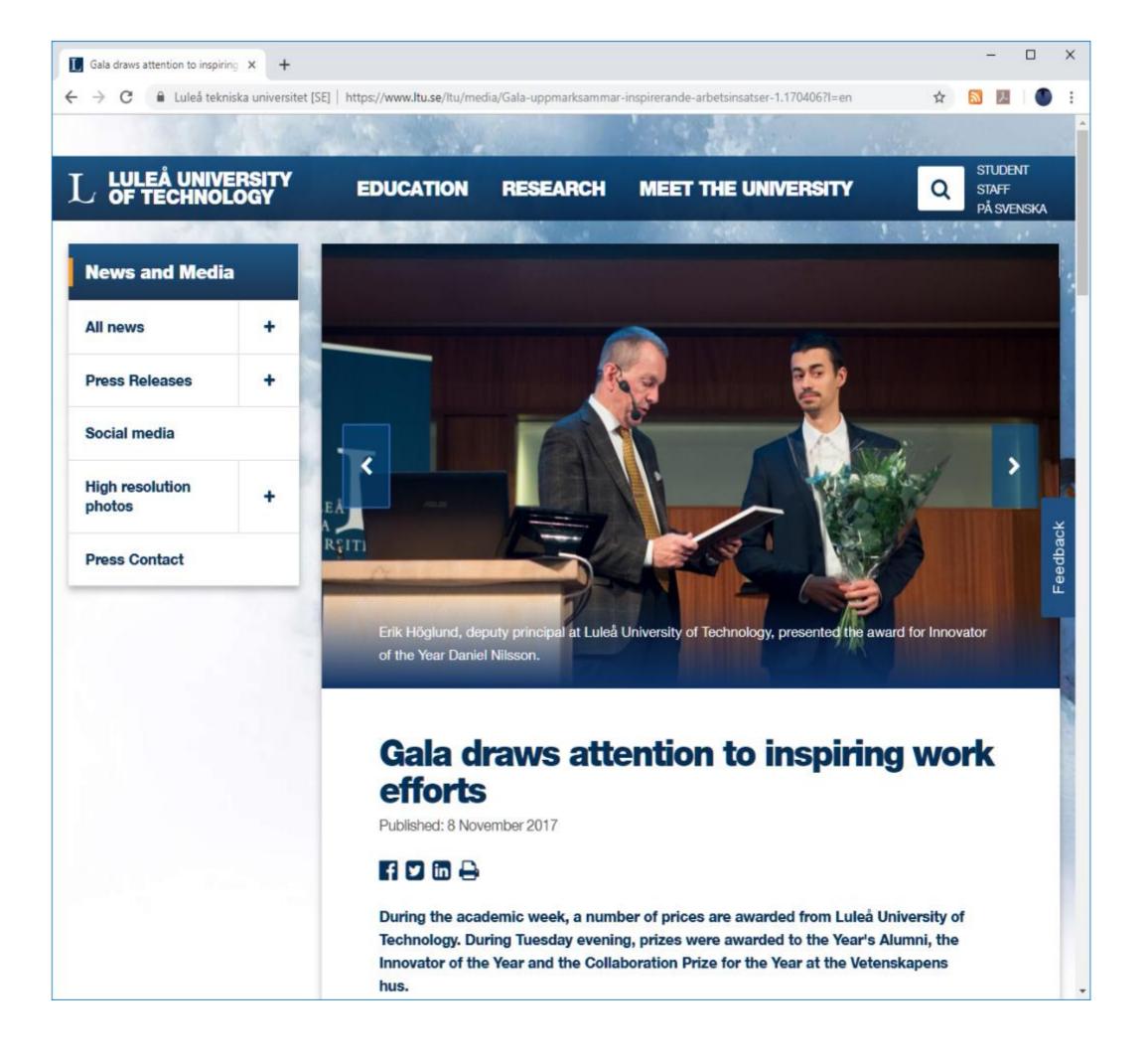
WILDA SPÅRNING

IMPACT LAB SUMMER PROGRAM 2017
STUDENTS WORKING ON THEIR OWN IDEAS

COMMAND AND CONTROL - SITUATION AWARENESS

Student Daniel Nilsson entered the ImpactLab summer program with his own idea. Started a company and was accepted at ESA-BIC as a space startup (downstream). Awarded LTU Innovator of the year 2017.







Workshop, Feb 20, 10.00
Parallel sessions at Ripan
Project Ideation

SME CHALLENGES

LTU / IRF RESEARCH

STUDENT IDEAS

PROJECTS SPACE FLAVOUR

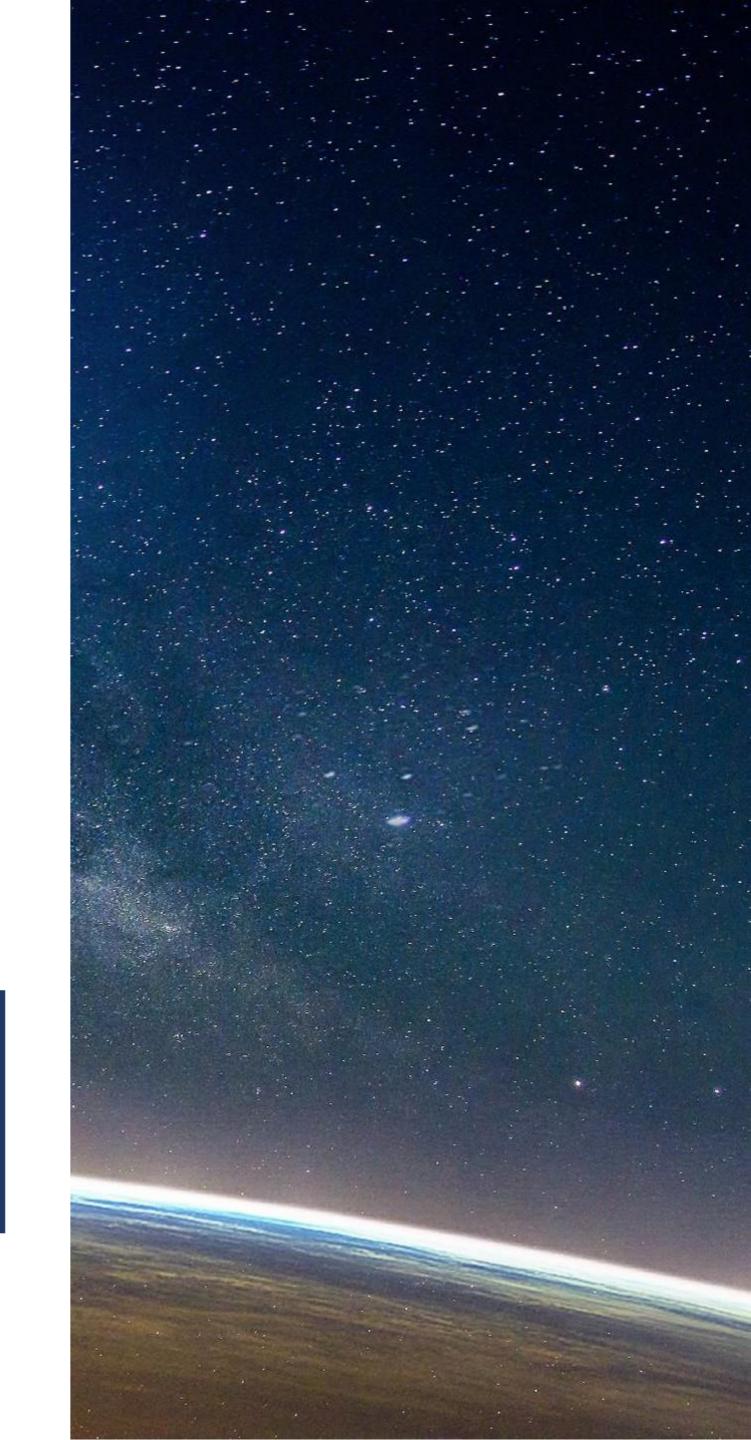
PAID SUMMER JOBS

INNOVATION FOCUS

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Workshop, Feb 19, 16.15
Pizza Night, Space campus
Inspiration and information



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