

## Adatbekérő lap, 2. melléklet - Kompetencialista

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| <p><b>TD 1 On-Board Data Systems</b></p> <p>1.1 <input type="checkbox"/> Payload Data Processing</p> <p>1.2 <input type="checkbox"/> On Board Data Management</p> <p>1.3 <input type="checkbox"/> Microelectronics for digital and analogue applications</p> <p><b>TD 2 Space System Software</b></p> <p>2.1 <input type="checkbox"/> Advanced Software Technologies</p> <p>2.2 <input type="checkbox"/> Space Segment Software</p> <p>2.3 <input type="checkbox"/> Ground Segment Software</p> <p>2.4 <input type="checkbox"/> Ground Data Processing</p> <p>2.5 <input type="checkbox"/> Earth Observation Payload Data Exploitation</p> <p><b>TD 3 Spacecraft Electrical Power</b></p> <p>3.1 <input type="checkbox"/> Power system architecture</p> <p>3.2 <input type="checkbox"/> Power generation technologies</p> <p>3.3 <input type="checkbox"/> Energy storage technologies</p> <p>3.4 <input type="checkbox"/> Power conditioning and distribution</p> <p><b>TD 4 Spacecraft Environment &amp; Effects</b></p> <p>4.1 <input type="checkbox"/> Space Environment</p> <p>4.2 <input type="checkbox"/> Environment effects</p> <p>4.3 <input type="checkbox"/> Space Weather</p> <p><b>TD 5 Space System Control</b></p> <p>5.1 <input type="checkbox"/> Space system architecture and autonomy</p> <p>5.2 <input type="checkbox"/> Space segment Guidance Navigation and Control (GNC)</p> <p><b>TD 6 RF Payload and Systems</b></p> <p>6.1 <input type="checkbox"/> Telecommunication (sub-)Systems</p> <p>6.2 <input type="checkbox"/> Radio Navigation (sub-)Systems</p> <p>6.3 <input type="checkbox"/> TT&amp;C (sub-)Systems</p> <p>6.4 <input type="checkbox"/> RF Payloads</p> <p>6.5 <input type="checkbox"/> Microwave and millimeter wave technologies and equipments</p> <p><b>TD 7 Electromagnetic Technologies and Techniques</b></p> <p>7.1 <input type="checkbox"/> Antennas</p> <p>7.2 <input type="checkbox"/> Wave Interaction and Propagation</p> <p>7.3 <input type="checkbox"/> EMC/RF/ESD</p> <p><b>TD 8 System Design &amp; Verification</b></p> <p>8.1 <input type="checkbox"/> Mission and System Specification</p> <p>8.2 <input type="checkbox"/> Collaborative and Concurrent Engineering</p> <p>8.3 <input type="checkbox"/> System Analysis and Design</p> <p>8.4 <input type="checkbox"/> Verification and AIT</p> <p><b>TD 9 Mission Operation and Ground Data Systems</b></p> <p>9.1 <input type="checkbox"/> Advanced System Concepts</p> <p>9.2 <input type="checkbox"/> Mission Operations</p> <p>9.3 <input type="checkbox"/> Ground Data Systems (MCS)</p> <p><b>TD 10 Flight Dynamics and GNSS</b></p> <p>10.1 <input type="checkbox"/> Flight Dynamics</p> <p>10.2 <input type="checkbox"/> GNSS systems and ground-related technologies</p> <p><b>TD 11 Space Debris</b></p> <p>11.1 <input type="checkbox"/> Measurements</p> <p>11.2 <input type="checkbox"/> Modelling, Databases and Risk Analysis</p> <p>11.3 <input type="checkbox"/> Hyper-Velocity Impact (HVI) and Protection</p> <p><b>TD 12 Ground Station System and Networks</b></p> <p>12.1 <input type="checkbox"/> Ground Station System</p> <p>12.2 <input type="checkbox"/> Ground Communications Networks</p> <p><b>TD 13 Automation, Telepresence &amp; Robotics</b></p> <p>13.1 <input type="checkbox"/> Applications and Concepts</p> <p>13.2 <input type="checkbox"/> Automation &amp; Robotics Systems</p> <p>13.3 <input type="checkbox"/> Automation &amp; Robotics components and Technologies</p> <p><b>TD 14 Life &amp; Physical Sciences</b></p> <p>14.1 <input type="checkbox"/> Instrumentation in support of Life Sciences</p> | <p>14.2 <input type="checkbox"/> Instrumentation in support of Physical Sciences</p> <p>14.3 <input type="checkbox"/> Applied Life Science Technology</p> <p>14.4 <input type="checkbox"/> Applied physical Science Technology</p> <p><b>TD 15 Mechanisms &amp; Tribology</b></p> <p>15.1 <input type="checkbox"/> Mechanism core technologies</p> <p>15.2 <input type="checkbox"/> Non-explosive release technologies</p> <p>15.3 <input type="checkbox"/> Exploration tool technologies</p> <p>15.4 <input type="checkbox"/> Control electronics technologies</p> <p>15.5 <input type="checkbox"/> MEMS technologies</p> <p>15.6 <input type="checkbox"/> Tribology technologies</p> <p>15.7 <input type="checkbox"/> Mechanism engineering</p> <p><b>TD 16 Optics</b></p> <p>16.1 <input type="checkbox"/> Optical system engineering</p> <p>16.2 <input type="checkbox"/> Optical component technology and materials</p> <p>16.3 <input type="checkbox"/> Optical equipment and instrument technology</p> <p><b>TD 17 Optoelectronics</b></p> <p>17.1 <input type="checkbox"/> Laser Technologies</p> <p>17.2 <input type="checkbox"/> Detector Technologies</p> <p>17.3 <input type="checkbox"/> Photonics</p> <p><b>TD 18 Aerothermodynamics</b></p> <p>18.1 <input type="checkbox"/> Computational Tools</p> <p>18.2 <input type="checkbox"/> Ground Based Facilities</p> <p>18.3 <input type="checkbox"/> Flight Testing</p> <p>18.4 <input type="checkbox"/> Multi-Disciplinary Tools</p> <p><b>TD 19 Propulsion</b></p> <p>19.1 <input type="checkbox"/> Chemical Propulsion Technologies</p> <p>19.2 <input type="checkbox"/> Electric Propulsion Technologies</p> <p>19.3 <input type="checkbox"/> Advanced Propulsion</p> <p>19.4 <input type="checkbox"/> Supporting Propulsion Technologies and Tools</p> <p><b>TD 20 Structures &amp; Pyrotechnics</b></p> <p>20.1 <input type="checkbox"/> Structural design and verification methods and tools</p> <p>20.2 <input type="checkbox"/> High stability and high precision S/C structures</p> <p>20.3 <input type="checkbox"/> Inflatable and deployable structures</p> <p>20.4 <input type="checkbox"/> Hot structures</p> <p>20.5 <input type="checkbox"/> Active/adaptive structures</p> <p>20.6 <input type="checkbox"/> Damage tolerance and health monitoring</p> <p>20.7 <input type="checkbox"/> Launchers, re-entry vehicles, planetary vehicles</p> <p>20.8 <input type="checkbox"/> Crew Habitation, Safe Haven and EVA suits</p> <p>20.9 <input type="checkbox"/> Meteoroid and Debris shield design and analysis</p> <p>20.10 <input type="checkbox"/> Advanced structural concepts and materials</p> <p>20.11 <input type="checkbox"/> Pyrotechnics technologies</p> <p><b>TD 21 Thermal</b></p> <p>21.1 <input type="checkbox"/> Heat Transport Technology</p> <p>21.2 <input type="checkbox"/> Cryogenics and Refrigeration</p> <p>21.3 <input type="checkbox"/> Thermal Protection</p> <p>21.4 <input type="checkbox"/> Heat Storage and Rejection</p> <p>21.5 <input type="checkbox"/> Thermal Analysis Tools</p> <p><b>TD 22 Environmental Control Life Support (ECLS) and In-Situ Resource Utilisation (ISRU)</b></p> <p>22.1 <input type="checkbox"/> Environmental Control &amp; Life Support (ECLS)</p> <p>22.2 <input type="checkbox"/> In-Situ Resource Utilisation (ISRU)</p> <p><b>TD 23 EEE Components and Quality</b></p> <p>23.1 <input type="checkbox"/> Methods and Processes for Radiation Hardness Assurance</p> <p>23.2 <input type="checkbox"/> EEE Component technologies</p> <p><b>TD 24 Materials &amp; Processes</b></p> <p>24.1 <input type="checkbox"/> Novel Materials</p> <p>24.2 <input type="checkbox"/> Materials Processes</p> <p>24.3 <input type="checkbox"/> Cleanliness and Sterilisation</p> <p><b>TD 25 Quality, Dependability and Safety</b></p> <p>25.1 <input type="checkbox"/> System Dependability and Safety</p> <p>25.2 <input type="checkbox"/> Software Quality</p> <p><b>TD 26 <input type="checkbox"/> Applications of Geographic Information Systems</b></p> <p><b>TD 27 <input type="checkbox"/> Earth Observation/Remote sensing</b></p> <p><b>TD 28 <input type="checkbox"/> Other (space related)</b></p> |
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## Kutatási kompetenciák

- Research - Astronomy and Astrophysics (Csillagászat, asztrofizika)
- Research - Biological, Medical, Life Sciences (Biológiai, orvosi és élettani kutatás)
- Research – Geodesy (Geodézia)
- Research – Geophysics (Geofizika)
- Research - Material Sciences (Anyagtudomány)
- Research - Meteorology (Meteorológia)
- Research – Physics of Near Earth Space (Föld körüli térség fizikája)
- Research - Solar Physics and Solar System Exploration (Nap és Naprendszer kutatása)
- Research - Space Communications and Navigation (Űrtávközlés és navigáció)
- Research - Space Physics (Űrfizika)
- Research – Other (space related)