Prairie View A&M University
(A Member of the Texas A&M University System)

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Prairie View A&M university
(A Member of the Texas A&M University System)

- Prairie View A&M University, an “institution of the first class”, is the second oldest public university in Texas (1876)
- Land-Grant (1890)
- Member of Texas A&M University System
- Offers baccalaureate, master’s and doctoral degree programs through eight colleges and schools

Colleges and Schools

- College of Agriculture and Human Sciences
  - Agriculture, Nutrition, & Human Ecology
  - Cooperative Extension Program
  - Cooperative Agricultural Research Center
  - Fisheries Internship Program
  - Master of Human Science

- College of Arts and Sciences
  - Biology
  - Chemistry
  - Social Work, Behavioral & Political Science
  - Languages and Communications
  - Mathematics
  - Department of Music and Theatre
  - Physics
  - ROTC – Army
  - ROTC – Navy
  - Solar Observatory

- College of Juvenile Justice and Psychology – Ph.D
  - Criminal Justice
  - Criminal Justice/Specialization in Juvenile Justice Psychology
  - Juvenile Justice
  - Juvenile Justice Forensic Psychology
  - Juvenile Justice
  - Clinical Adolescent Psychology

- College of Business
  - Accounting, Finance, and MIS
  - Management and Marketing
  - Master of Business Administration
  - Master of Science and Accounting

- College of Engineering
  - Chemical Engineering
  - Civil & Environmental Engineering
  - Computer Science
  - Electrical and Computer Engineering - Ph.D.
  - Engineering Technology
  - Mechanical Engineering

- College of Education – Ph.D.
  - Alternative Teacher Certification
  - Curriculum and Instruction
  - Educational Leadership and Counseling
  - Health and Human Performance

- College of Nursing
  - B.S. in Nursing (BSN)
  - BSN Program
  - LVN-BSN Program
  - M.S. in Nursing (MSN)

- School of Architecture
  - Bachelor of Science in Architecture
  - Bachelor of Science in Construction Science
  - Master of Architecture
  - Master of Science in Community Development
RESEARCH AT Pvamu pantherLAND

2010-2014 Research PARTNERS AT A GLANCE
- Federal - $112,886,486
- State of Texas - $42,013,961
- Public Sector - $8,215,196
- Private Sector - $3,340,568
NASA Grants and Contracts

<table>
<thead>
<tr>
<th>Prime Sponsor</th>
<th>Start Date</th>
<th>End Date</th>
<th>Sponsor</th>
<th>PI</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA-Earth Science Technology Office</td>
<td>1-Aug-15</td>
<td>30-Sep-15</td>
<td>L-3 Communication</td>
<td>Shield Lin</td>
<td>Computer Workstations to L-3 Software Simulation Laboratory</td>
</tr>
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<td>1-Aug-15</td>
<td>30-Sep-15</td>
<td>L-3 Communication</td>
<td>Shield Lin</td>
<td>Additional Lab Equipment to L-3 Software Simulation Laboratory</td>
</tr>
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<td>NASA-Earth Science Technology Office</td>
<td>1-May-15</td>
<td>30-Sep-15</td>
<td>L-3 Communication</td>
<td>Shield Lin</td>
<td>L-3 Simulation Software Initiative (SSI) Student Internships</td>
</tr>
<tr>
<td>NASA-Johnson Space Center</td>
<td>1-Oct-12</td>
<td>30-Sep-17</td>
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<td>Shield Lin</td>
<td>L-3 Simulation Software Fy 12-13</td>
</tr>
<tr>
<td>NASA-Johnson Space Center</td>
<td>1-Sep-11</td>
<td>31-Aug-13</td>
<td>University of Texas at Austin</td>
<td>Shield Lin</td>
<td>Texas Space Grant Space Exploration Software Simulation Curriculum ...</td>
</tr>
<tr>
<td>NASA-Johnson Space Center</td>
<td>6-Dec-11</td>
<td>31-Aug-16</td>
<td>United Negro College Fund Special Programs</td>
<td>Abdu Karim</td>
<td>Development of Technologies for Elucidation and Mitigation of Bone Loss in Microgravity ...</td>
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<tr>
<td>NASA-Johnson Space Center</td>
<td>1-Mar-11</td>
<td>30-Sep-12</td>
<td>L-3 Communication</td>
<td>Shield Lin</td>
<td>L-3 Simulation Software</td>
</tr>
<tr>
<td>NASA-Brenn Space Center</td>
<td>1-Sep-14</td>
<td>31-Dec-15</td>
<td>Emory University</td>
<td>Huichen Wang</td>
<td>Mechanisms underlying the risk of HZE particle-induced solid tumor development</td>
</tr>
<tr>
<td>NASA</td>
<td>1-Jan-09</td>
<td>30-Sep-16</td>
<td>Lockheed Martin Space Operation</td>
<td>Kendall Harris</td>
<td>LMD Storefront Property</td>
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<td>NASA-Brenn Space Center</td>
<td>20-Sep-14</td>
<td>19-Mar-16</td>
<td>NASA-Brenn Space Center</td>
<td>Huichen Wang</td>
<td>DNA Repair and Protection from Apoptosis in Neuronal Progenitors Exposed to Space Radiation</td>
</tr>
</tbody>
</table>

PVAMU RESEARCH CENTERS/INSTITUTES

- Cooperative Agricultural Research Center (CARC)
- Center of Excellence in Research and Education for Big Military Data Intelligence (CREDIT)
- International Goat Research Center
- Community for Urban and Rural Enhancement Services (CURES)
- Texas Institute for the Preservation of History and Culture (TIPHC)
- Prairie View Solar Observatory (PVSO)
- Radiation Institute for Science and Engineering (RaISE)
- Small Business Development Center (SBDC)
- Center for International Business Education (CIBE)
- Center for Applied Radiation Research (CARR)
- The Center for Radiation Engineering and Science for Space Exploration (CRESSE)
- The Center for Digital Battlefield Communications (CEBCOM)
- The Center for Energy and Environmental Sustainability (CEES)
- The Center of Excellence for Communication Systems Technology Research (CECSTR)
NASA Center for Radiation Engineering and Science for Space Exploration (CRESSE)

- Funded by the National Aeronautics and Space Administration (NASA)

Director: Dr. Wilkins

Prairie View A&M University is going to space!

Dr. Wilkins shows his support for NASA.

Social media:
https://twitter.com/UR1_PVAMU
https://www.facebook.com/pages/UR-1-PVAMU/625140974199819

Grad student Janet Ruedas works with the UR-1 RAMs

The UR-1 payload must fit into a 10 cm x 10 cm x 25 cm aluminum box. This picture shows the payload cell tube in the box and the two NASA/PVAMU Radiation Area Monitors (RAMs). This was a “fit-check” performed at the offices of NanoRacks, the company that will integrate the payload onto the SpaceX capsule.
Thermal Science Research Center (TSRC)

- **Funded by Department of Energy, Nuclear Regulatory Commission, Sandia National Laboratory**
- Studies mechanisms and quantitative factors controlling high heat flux removal in engineering components
- Modeling and Simulations
- U.S. Patent (No. 6,824,305)
- Director: Dr. Ronald Boyd

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Prairie View Solar Observatory

- **NASA/ Marshall Space Flight Center, Nuclear Regulatory Commission**
- Monitors Solar Flares
- Fusion Plasma Research Project
- **First Ground-based Solar Research Facility in the State of Texas**
- Director: Dr. Huang
Project Monitoring Team at JSC Houston with Columbia in SpacE

• Real-time DSP Solutions performance in space.
• The concept of great-distance distributed signal analysis verified.
• Providing answers instead of raw data from space.

STS-107

First Prairie View A&M University Payload
Launched into Deeper Space on December 3, 2014

Sponsored by the Chancellor’s Research Initiative
Dr. John Sharp, Chancellor, Texas A&M University System
Radiation Institute for Science and Engineering (RaISE)
Dr. P. B. Saganti, Principal Investigator and Research Director
Dr. F. A. Cucinotta, Chief Scientist and Executive Professor
MSTRS/AMRTD Project

- Litton Advanced Space Systems
- MSTRS – Miniature Satellite Threat Reporting System
- AMRTD – Advanced Microwave Receiver Technology Development

Center of Excellence for Communication Systems Technology Research (CECSTR)
Center of Excellence for Battlefield Communications Research

**Funded by the DoD**

- Goal is to develop a novel battlefield communications network architecture that supports multi-service applications (voice, data, and video) using seamless IP
- Ad hoc wireless networking

**PVAMU IceP operational diagram**

- Innovation
- Commercialization
- Entrepreneurship

**SPECIFIC BENEFITS OF COLLABORATIVE INDUSTRY PARTNERSHIPS**

- Reinforce
- Niche market
- Research opportunities
University contact

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