Business needs drive innovation to support safe, reliable, and efficient operations.

### Functional Areas

<table>
<thead>
<tr>
<th>Operations</th>
<th>Maintenance</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operations</td>
<td>Emergency Planning</td>
<td>Administrative Services</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Design Engineering</td>
<td>Performance Improvement: CAP</td>
</tr>
<tr>
<td>Radiation Protection</td>
<td>PRA Engineering</td>
<td>Project Management</td>
</tr>
<tr>
<td></td>
<td>Program Engineering</td>
<td>Regulatory Services</td>
</tr>
<tr>
<td></td>
<td>Work Management</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Systems Engineering</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Functional Area</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Management</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Business Support</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maintenance Support</td>
<td></td>
</tr>
</tbody>
</table>

### Advanced Capabilities/Integrated Technologies

- Computer Based Procedures
- Automated Rounding
- Automated TS Monitoring
- Digital Control Room
- Remote Supervision
- Computer Operated Support System
- Distributed Control System
- Online Monitoring
- Condition-Based Monitoring
- EWP/AWP
- Advanced Outage Management
- Worker/Item Location
- Real-Time Collaboration
- Enterprise Asset Management
- Remote Component Position Indication
- Advanced Training (e.g., JIT)
- Automated Detection
- Remote Weapons
- Digital Mapping
- Automated Radi Cont. Detection
- Automated Sampling
- Automated Injection
- In-Line Sampling

### Base Technologies

#### Communications
- LoRa
- Leaky Coax
- WIFI
- 900 MHz
- 4G
- 5G
- Bluetooth
- Satellite
- mmWave
- DAS
- Cognitive Radio

#### Analytics
- Machine Learning
- Artificial Intelligence
- Anomaly Detection
- Spatial Mapping
- NLP/Text Mining

#### Visualization
- Digital HMI
- Virtual Reality
- Augmented Reality
- Computer Vision

#### Management
- Data Storage
- High Performance Computing
- Data Integration and Sharing

#### Sensors
- RFID
- Bar Code Readers
- Wired Sensors
- Wireless Sensors
- Fixed Cameras
- Mobile Cameras
- Recording Beacons

#### Devices
- Tablets
- Helmet Cameras
- GPS Devices
- Head-up Display (HUD) Headsets
- VR Headsets
- Drones
- Robots
- Digital I&C