Data Analytics Expert (SPPS-II)
Ministry of Industries and Production (MoIP)

Needs Assessment:

The Ministry of Industries and Production (MoIP), Government of Pakistan, is responsible for formulating and implementing industrial policies aimed at sustainable economic growth and competitiveness. The growing availability of data across departments, industrial sectors, and trade platforms necessitates a structured approach to data analysis and evidence-based decision-making. The Ministry requires enhanced capabilities for:

- Real-time monitoring and evaluation of industrial performance and productivity.

- Policy and strategy development based on robust data insights.

- Optimization of supply chains and value-added production through trend analysis.

- Identification of investment gaps, industrial clusters, and performance bottlenecks.

- Automation and digitization of internal reporting systems.

To leverage data for smarter policy design, resource allocation, and program monitoring, a Data Analytics Expert is required to support MoIP in building data capabilities and establishing a culture of evidence-based governance.

Job Description:

The Data Analytics Expert will provide technical leadership in managing, analyzing, and visualizing data to support the Secretary MoIP in policy, planning, and performance monitoring functions.

Qualifications & Eligibility:

- *Education:*

  o Master's degree or higher in Data Science, Computer Science, Statistics, Economics, Engineering, or a related field from a recognized national or international university.

  o Certifications in data analytics tools/platforms such as Tableau, Power BI, Python, R, SQL, Google Analytics will be an added advantage.

- *Experience:*

  o Minimum 12 years of relevant professional experience consistent with SPPS-II requirements.

  o Proven experience in building data-driven dashboards, predictive models, and managing large datasets.

  o Experience preferably in the public sector, industry, or policy research environment.

  o Familiarity with industrial policy, trade economics, or manufacturing sector analytics is desirable.

- *Core Competencies and Skills:*

- o Strong programming and analytical skills with proficiency in Python, R, SQL, and Excel.

- o Experience with data visualization tools such as Power BI and Tableau.

- o Knowledge of cloud platforms and data engineering is a plus.

- o Excellent communication and report-writing skills.

- o Strong stakeholder engagement and team collaboration skills.

Key Responsibilities:

1. *Data Integration & Management:*

   - o Design data pipelines and systems to integrate disparate industrial datasets.

   - o Establish frameworks for data quality assurance and metadata management.

2. *Analytics & Visualization:*

   - o Conduct advanced analytics including descriptive, predictive, and prescriptive modeling.

   - o Build dashboards and interactive visualizations tailored for senior leadership decision-making.

3. *Policy & Decision Support:*

   - o Translate data insights into actionable policy recommendations.

   - o Support industrial strategy reviews using evidence-based analysis.

4. *Capacity Building:*

   - o Train Ministry staff in data tools, interpretation, and reporting.

   - o Develop Standard Operating Procedures (SOPs) for data management and usage within MoIP.

5. *Collaboration:*

   - o Coordinate with other ministries, provincial departments, and think tanks.

   - o Support donor-funded programs requiring analytical expertise.

Remuneration:

- Contract-based position under SPPS-II guidelines issued by the Establishment Division.

- Monthly remuneration and benefits as per SPPS-II approved scale (to be determined by Finance Division).