

\*\*\*\*\*

## Senior Researcher R&D - México

Location: Veracruz

**Experience Requirement:** Fracture and fatigue mechanisms, fractography, mechanical testing and failure analysis

**Education Requirement:** Ph D Mechanical Engineering, specialist in fracture mechanics and fatigue

**Language Skills:** English High Advance

### Main responsibilities:

- Lead structural integrity research projects, especially Engineering Critical assessment, Fatigue and Strain/Stress Based Design of the Tenaris products.
- Qualify and develop fracture mechanics and fatigue tests
- To represent Tenaris (international and national) in scientific events as well as in research & development centers that works for the company.
- Administration of the technical information generated by the research in order to provide it to Tenaris group.
- Maintain updated the file of the national and international regulations of the structural integrity analyses (fracture and fatigue).

### Additional relevant data:

- Experience: 2-5 years in Research & Development or as an Engineer on Fracture mechanics
- Preferable with working experience in one of the following areas:
  - o Pipeline industry
  - o Refining/Petrochemical/Gas Processing Industries
  - o Heavy Equipment Industry
- Strong computer skills including FEA and CAD.

### Competencies

- Self-Starting Person / Team player
- Good problem solving skills.
- Balance problem solving with goal setting.

\*\*\*\*\*

## Researcher R&D - México

**This open position does not accept international candidates.**

**Location:** Veracruz

**Experience Requirement:** Fracture and Fatigue mechanism, Welding, Metallurgy. Fractography, and with testing and failure analysis

**Education Requirement:** Metallurgic or Mechanical Engineering & Master Degree Level

**Language Skills:** English Low Advance

### Main responsibilities:

Failure Analyses of tubular and mechanical components at Tenaris mills in order to identify their cause and to contribute to the definition of further corrective actions

- Structural Integrity evaluation of tubular products, girth joints and threaded connections, in term of:
  - Fatigue resistance (S-N, E-N and FCGR approaches),
  - Fracture resistance (CTOD, J-R curves, DWTT, FATT),
  - Resistance in harsh environment (sour service, artic conditions),
- Support the mechanical characterization of Tenaris products in the mills, in-line with International Standard (ISO, ASTM, BS).

- Follow full scale fatigue tests and perform post-testing analyses.

**Additional relevant data:**

- Interact with other R&D centers personnel and engineers in charge of structural integrity.
- Remain aware of the state of art developments in engineering and research.
- Consolidate our customer's relationship. Acquire proprietary know-how in term of offshore pipeline systems.

**Competencies**

Self starter  
Resourceful  
Creative  
Solution Oriented

Elsa Marques

Recruitment and Development, TenarisTamsa  
Km 433.7 Carr. México-Veracruz, Vía Xalapa  
(91697) Veracruz, VER, Mexico  
Tel: +52 229 989 1646  
emarques@tamsa.com.mx