

## THE TECHNICAL SURVEY

### 2017 BENCHMARK POSITIONS

#### MANAGEMENT/PROJECT MANAGEMENT

Information/Technical Systems Executive  
 Information & Technology Infrastructure Executive  
 Director of Project Management Officer  
 Engineering Executive  
 Engineering Practice Director (New)  
 Chief Technology Office (CTO)  
 Senior Project/Technical Director  
 Project/Technical Director  
 Senior Project/Department Manager  
 Project Manager  
 Team/Project Leader 2  
 Team/Project Leader 1  
 Project Administrator 3 (New)  
 Project Administrator 2  
 Project Administrator 1  
 Technical Area Manager  
 Field Operations Manager

#### TECHNOLOGY SOLUTIONS

Technology Solutions Architect 3  
 Technology Solutions Architect 2  
 Technology Solutions Architect 1  
 Technology Solutions Analyst 3  
 Technology Solutions Analyst 2  
 Technology Solutions Analyst 1

#### SYSTEMS DEVELOPMENT

Systems Architect 3  
 Systems Architect 2  
 Systems Architect 1  
 Systems Analyst 3  
 Systems Analyst 2 (Programmer Analyst)  
 Systems Analyst 1 (Programmer)  
 SharePoint Analyst  
 Reporting Analyst  
 Automated Testing Developer

#### COMPUTER OPERATIONS

Computer Operations Manager  
 Computer Operations Lead  
 Computer Operator 3  
 Computer Operator 2  
 Computer Operator 1  
 Operations Analyst 2  
 Operations Analyst 1

#### TECHNICAL SUPPORT

Technical Support Manager  
 Technical Support 4  
 Technical Support 3  
 Technical Support 2  
 Technical Support 1  
 Systems Administrator 3  
 Systems Administrator 2  
 Systems Administrator 1  
 UNIX Systems Administrator

#### SOFTWARE DEVELOPMENT

Software Development Manager  
 Software Development Consultant  
 Software Developer 5  
 Software Developer 4  
 Software Developer 3  
 Software Developer 2  
 Software Developer 1  
 Senior Full Stack Developer (New)  
 Manager, Software Systems Implementation Team  
 Software Test Team Lead  
 Software Test Analyst 3  
 Software Test Analyst 2  
 Software Test Analyst 1  
 Software Application Support Analyst

#### MOBILE APPLICATIONS

Mobile Applications Architect  
 Sr. Mobile Applications Developer  
 Mobile Applications Developer

#### SOFTWARE ENGINEERS

Software Engineering Manager  
 Software Engineering Consultant  
 Software Engineer 5  
 Software Engineer 4  
 Software Engineer 3  
 Software Engineer 2  
 Software Engineer 1

#### BUSINESS PROCESS ANALYSIS

Business Process Manager  
 Business Process Analyst 3  
 Business Process Analyst 2  
 Business Process Analyst 1

#### HARDWARE ENGINEERS

Hardware Engineering Manager  
 Hardware Engineering Consultant  
 Hardware Engineer 5  
 Hardware Engineer 4  
 Hardware Engineer 3  
 Hardware Engineer 2  
 Hardware Engineer 1  
 Reliability Engineer

#### BUSINESS SOLUTIONS

Business Solutions Manager  
 Product Development Manager (New)  
 Business Development Consultant 2  
 Business Development Consultant 1  
 Business Solutions Architect 2  
 Business Solutions Architect 1  
 Business Analyst 3  
 Business Analyst 2  
 Business Analyst 1  
 Client Services Manager  
 Client Services Coordinator  
 Vendor Management Manager  
 Vendor Management Analyst  
 Proposal Manager  
 Proposal Coordinator

#### INTEGRATED SYSTEMS (ERP)

Integrated Systems (ERP) Manager  
 ERP Configuration/Application 4  
 ERP Configuration/Application 3  
 ERP Configuration/Application 2  
 ERP Configuration/Application 1  
 ERP Administrator  
 ERP Software Development and Deployment 4  
 ERP Software Development and Deployment 3  
 ERP Software Development and Deployment 2  
 ERP Software Development and Deployment 1  
 ERP Software Development and Deployment 1A  
 Technical Writer 3  
 Technical Writer 2  
 Technical Writer 1  
 Technical Trainer 2  
 Technical Trainer 1

**THE TECHNICAL SURVEY****2017 BENCHMARK POSITIONS****(continued)****NETWORKS**

Networks Infrastructure Manager  
Network Specialist 3  
Network Specialist 2  
Network Specialist 1  
Cloud Computing Architect  
Network Analyst 2  
Network Analyst 1  
Middleware Architect  
Middleware Analyst

**WEB SYSTEMS & APPLICATIONS**

Web Applications Technical Manager  
Web Systems Analyst 3  
Web Systems Analyst 2  
Web Systems Analyst 1  
Web Applications Architect 2  
Web Applications Architect 1  
Web Applications Developer 2  
Web Applications Developer 1  
Graphic User Interface Designer 3  
Graphic User Interface Designer 2  
Graphic User Interface Designer 1  
Web Master 2  
Web Master 1  
Internet Security and Systems Testing

**DRAFTING DESIGNERS**

Drafting / BIM Designer Manager  
Drafting / BIM Designer Supervisor  
Drafting / BIM Designer 3  
Drafting / BIM Designer 2  
Drafting / BIM Designer 1  
Design Systems Specialist  
Design Systems Analyst

**ARCHITECTS**

Architectural Manager / Specialist  
Architect / Design Professional 4  
Architect / Design Professional 3  
Architect / Design Professional 2  
Intern Architect / Design Professional 1  
BIM Specialist  
Architectural Technologist 3  
Architectural Technologist 2  
Architectural Technologist 1

**INTERIOR DESIGN**

Project Manager / Interior Designer 3  
Project Manager / Interior Designer 2  
Intern Project Manager / Interior Designer 1  
Interior Designer Technologist 2  
Interior Designer Technologist 1  
Design Assistant

**PROJECT SUPPORT**

Construction Contract Administrator  
Specification Writer

**PLANNER / DESIGNER**

Urban / Community Planner 2  
Urban / Community Planner 1  
Urban Designer 2  
Urban Designer 1  
Landscape Architect

**CLIENT SUPPORT (Help Desk)**

Client Support/Help Desk Manager  
Help Desk Lead  
Help Desk Rep 2  
Help Desk Rep 1  
Client Support Lead  
Client Support Rep 3  
Client Support Rep 2  
Client Support Rep 1

**DATABASE MANAGEMENT**

Database Manager  
Database Architect 2  
Database Architect 1  
Database Analyst 2  
Database Analyst 1  
Database Administrator 2  
Database Administrator 1  
Data Storage Lead  
Data Storage Architect  
Data Storage Administrator  
Business Intelligence Specialist  
Salesforce CRM Sr. Business Analyst (New)  
Salesforce CRM Jr. Business Analyst (New)  
Salesforce CRM Administrator (New)  
Salesforce CRM App Builder (New)

**TECHNICAL SALES & SUPPORT (Pre-Post Sales)**

Regional Sales Manager  
Technical Sales Manager  
Technical Sales Rep 2 (Sr. Sales Representative)  
Technical Sales Rep 1 (Sales Representative)  
Business Development Representative  
Applications Specialist 3  
Applications Specialist 2  
Applications Specialist 1  
Field Services Lead  
Senior Field Services Technician  
Field Services Technician

**FIRMWARE (Embedded Software) ENGINEERS**

Firmware Engineering Manager  
Firmware Engineering Consultant  
Firmware Engineer 5  
Firmware Engineer 4  
Firmware Engineer 3  
Firmware Engineer 2  
Firmware Engineer 1

**TECHNOLOGISTS**

Technologist Lead  
Technologist 4  
Technologist 3  
Technologist 2  
Technologist 1  
Project Technologist

**QUALITY ASSURANCE**

Quality Assurance Director  
Quality Assurance Manager  
Quality Assurance Analyst 4 / Supervisor (Revised Title)  
Quality Assurance Analyst 3  
Quality Assurance Analyst 2  
Quality Assurance Analyst 1  
Release Manager

**COMPUTER/HARDWARE SUPPORT**

Computer Hardware/PC Support Manager  
Computer/Hardware Lead  
Computer/Hardware Technician 3  
Computer/Hardware Technician 2  
Computer/Hardware Technician 1

## THE TECHNICAL SURVEY

### 2017 BENCHMARK POSITIONS

(continued)

#### GRAPHIC DESIGN

Graphic Designer Lead  
Graphic Designer 3  
Graphic Designer 2  
Graphic Designer 1

#### MULTI-MEDIA (New Media)

Art Director  
Creative Director  
Senior Animator  
Animator  
Senior Modeler (2D, or 3D)  
Modeler (2D, or 3D)  
Multimedia Application Developer  
Web Content Leader/Manager  
Web Content Developer 2  
Web Content Developer 1/Copywriter  
New Media Producer  
Search Engine Optimization (SEO) Specialist  
Social Media Coordinator 1  
Senior Social Media Coordinator  
Web Analytics Analyst

#### TELECOMMUNICATIONS

Telecommunications Manager  
Telecommunications Supervisor  
Telecommunications Technician 3  
Telecommunications Technician 2  
Telecommunications Technician 1  
Telecom Technician / Splicer (New)  
Telecom Systems Engineer

#### IT ASSET MANAGEMENT

Information & Technology Asset Manager  
Information & Tech Asset Management Compliance Officer  
Information & Technology Asset Coordinator  
Information Systems Audit Manager  
Information & Tech Service Perf Management Manager

#### BUSINESS SYSTEMS ANALYSIS

Business Systems Manager  
Business Systems Analyst 4  
Business Systems Analyst 3  
Business Systems Analyst 2  
Business Systems Analyst 1

#### ENGINEERING - GENERAL

Engineering Senior Management/Expert (Level F+)  
Engineering Manager (Level F)  
Engineer (Level E)  
Engineer (Level D)  
Engineer (Level C)  
Engineer (Level B)  
Engineer (Level A)

#### GEOMATICS

GIS Manager  
GIS Supervisor  
GIS Specialist  
GIS Developer 2  
GIS Developer 1  
Geomatics Technician 4  
Geomatics Technician 3  
Geomatics Technician 2  
Geomatics Technician 1

#### LAND SURVEYORS

Senior Project Manager  
Senior Land Surveyor (Project Manager)  
Land Surveyor 2  
Land Surveyor 1  
Party Chief 3  
Party Chief 2  
Party Chief 1  
Survey Assistant 2  
Survey Assistant 1

#### OPERATIONS ADMIN

Safety Manager  
Safety Specialist  
Safety Advisor 1

#### GEOSCIENTISTS

Geoscientist Senior Management/Expert (Level F+)  
Geoscientist Manager (Level F)  
Geoscientist (Level E)  
Geoscientist (Level D)  
Geoscientist (Level C)  
Geoscientist (Level B)  
Geoscientist (Level A)

#### SCIENTISTS

Scientist 6 (New)  
Scientist 5  
Scientist 4  
Scientist 3  
Scientist 2  
Scientist 1

#### CONTINUITY MANAGEMENT/DISASTER RECOVERY

Director Business Continuity/Disaster Recovery  
Business Continuity/Disaster Recovery Project Manager  
Business Continuity/Disaster Recovery 2  
Business Continuity/Disaster Recovery 1  
Systems Disaster Recovery Analyst  
Information Security Manager  
Information Security Architect  
Information Security Analyst 2  
Information Security Analyst 1  
Security Analyst  
Security Operator

#### INSPECTORS

Chief Inspector  
Environmental Compliance Inspector (New)  
Field Inspector 3  
Field Inspector 2  
Field Inspector 1

#### PIPELINE SERVICES

Pipeline Logistics Coordinator  
Pipeline Maintenance Technician  
Pipeline Field Service Technician  
Pipeline Data Analyst