Universitas Esa Unggul

Smart, Creative and Entrepreneurial

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# Materi Perkuliahan Sesi 11
# Riya Widayanti
# SI-FASILKOM
# Sumber Rakornas APTIKOM 2017

# KEMAMPUAN AKHIR YANG DIHARAPKAN

- Memahami kompetensi SDM Bidang TI
- Memahami Profil Lulusan Bidang SI
- Menyelaraskan capaian lulusan dengan bidang kerja yang saat ini
- Munculnya profesi baru bidang TI

# Inovasi Yang Mengubah Landscape Informatika

1. Kehadiran **Komputer Mikro**, miniaturisasi terjadi pada alat komputasi elektronika
2. Kehadiran **Internet**, era konektivitas antar perangkat komputer terwujud
3. Kehadiran **Smartphone**, konvergensi teknologi Microprocessor dan Handphone
4. Kehadiran **Pita Lebar (Broadband)**, membuat perangkat mobile semakin perkasa
5. Kehadiran **Internet of Things (IoT)**, akan membuka lanscape baru Industri Elektronika & Telematika

# Tekniklogi Informasi Memiliki Peran Dominan pada Manajemen & Bisnis

- ***Business Tools***, berperan dalam menunjang kegiatan organisasi, i.e. Productivity Tools (a.l. aplikasi Office), Enterprise Recource Planning (ERP), Supply Chain Managemnt (SCM), Customer Relationship Management (CRM);
- ***Business Enabler***, aktivitas bisnis hanya dapat dilakukan dengan perangkat lunak, a.l. Internet Banking, Online Reservation
- ***Business Transformer / Disruptive***, perangkat lunak merubah paradigma bisnis, i.e.**Fintech**, Gojek, AirBnB.

# Pemetaan Lapangan Kerja TI

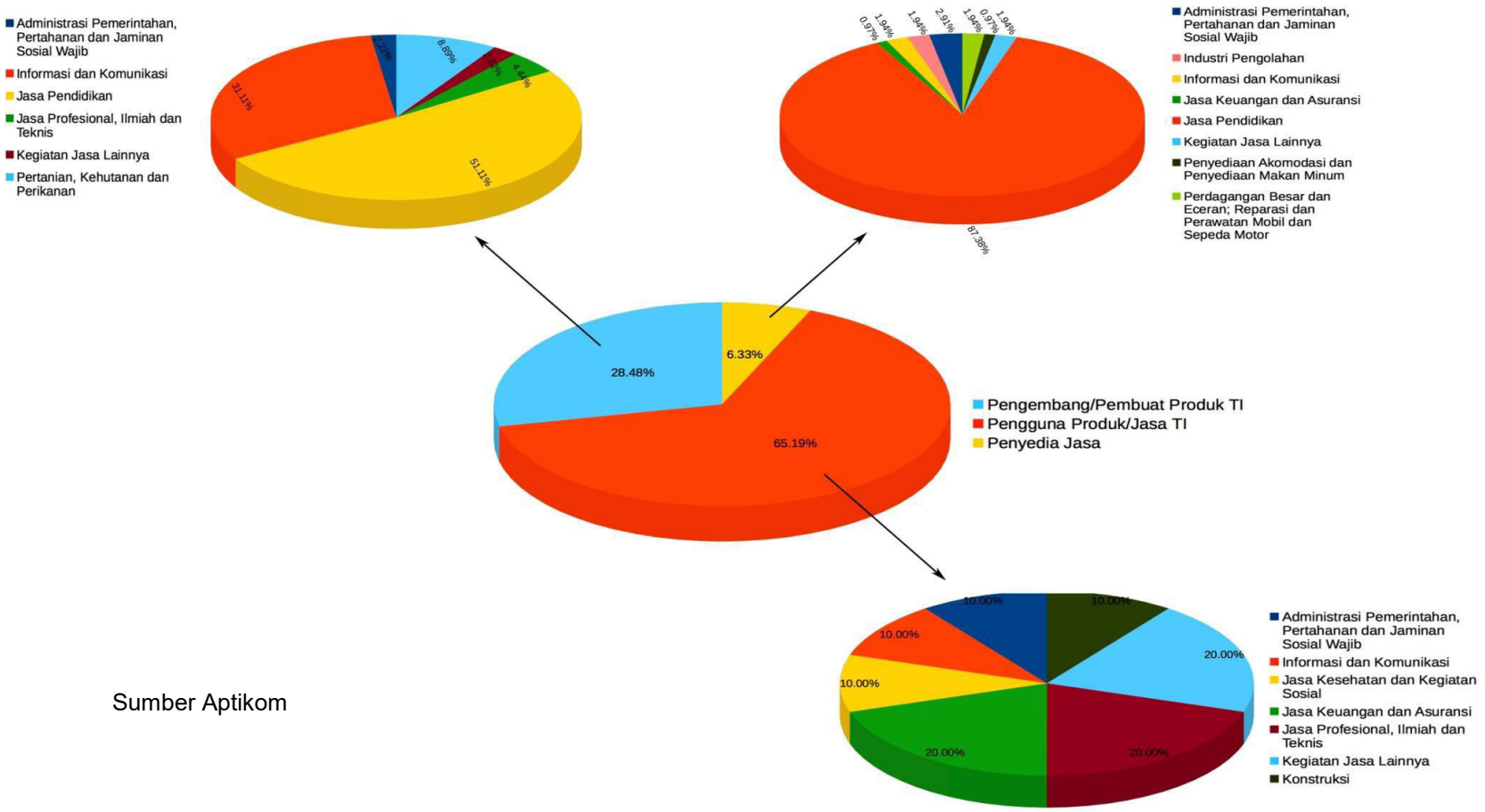
Pasar SDM TIK

- Dorongan timbulnya Kebutuhan SDM
- Yang dimandatkan oleh peraturan
- Yang ada di pasar SDM saat ini

Yang dibutuhkan di masa depan, pengelompokan:

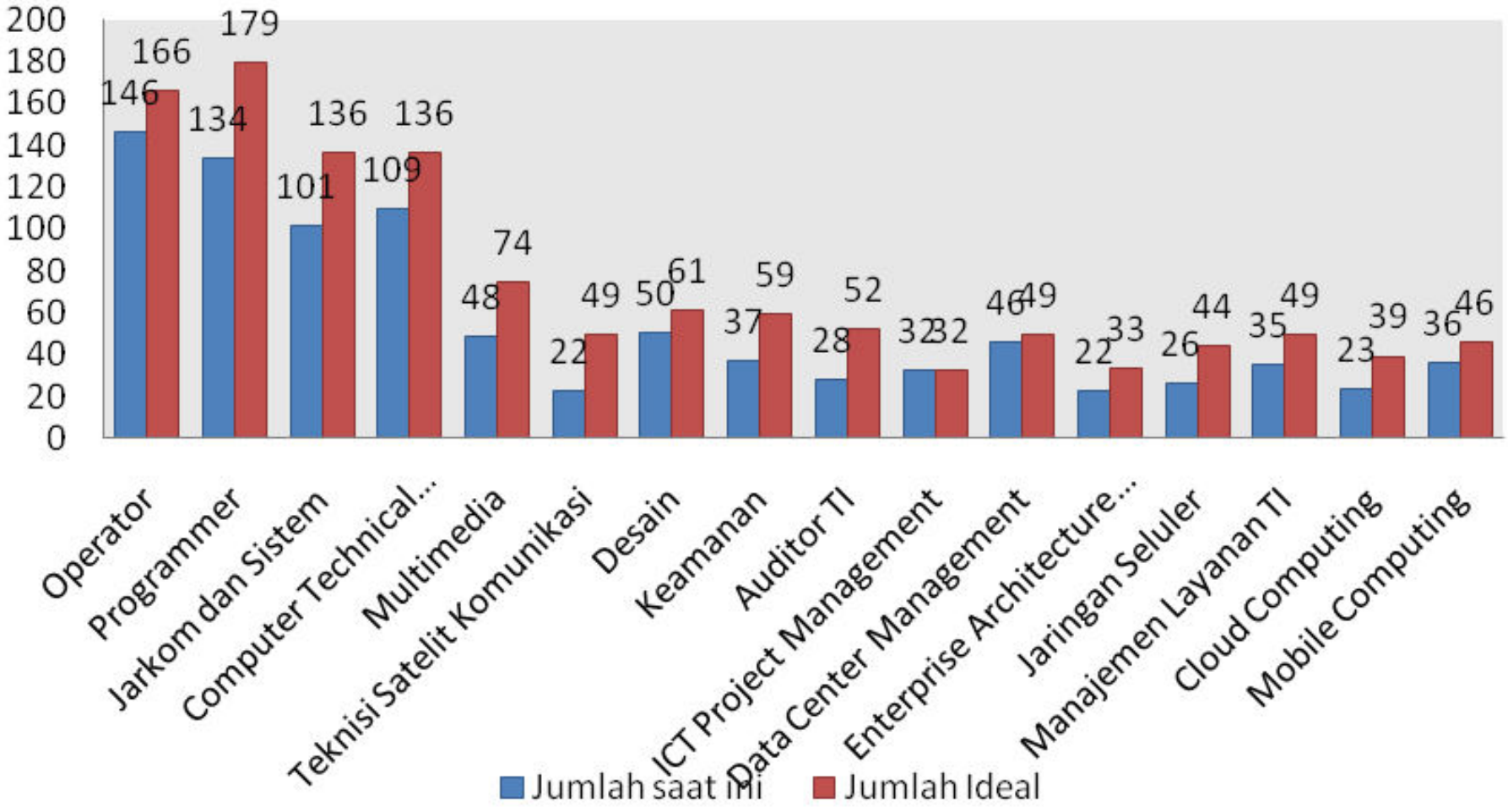
- Pengembang / Pembuat Produk TI
- Pengguna Produk /Jasa TI
- Penyedia Jasa

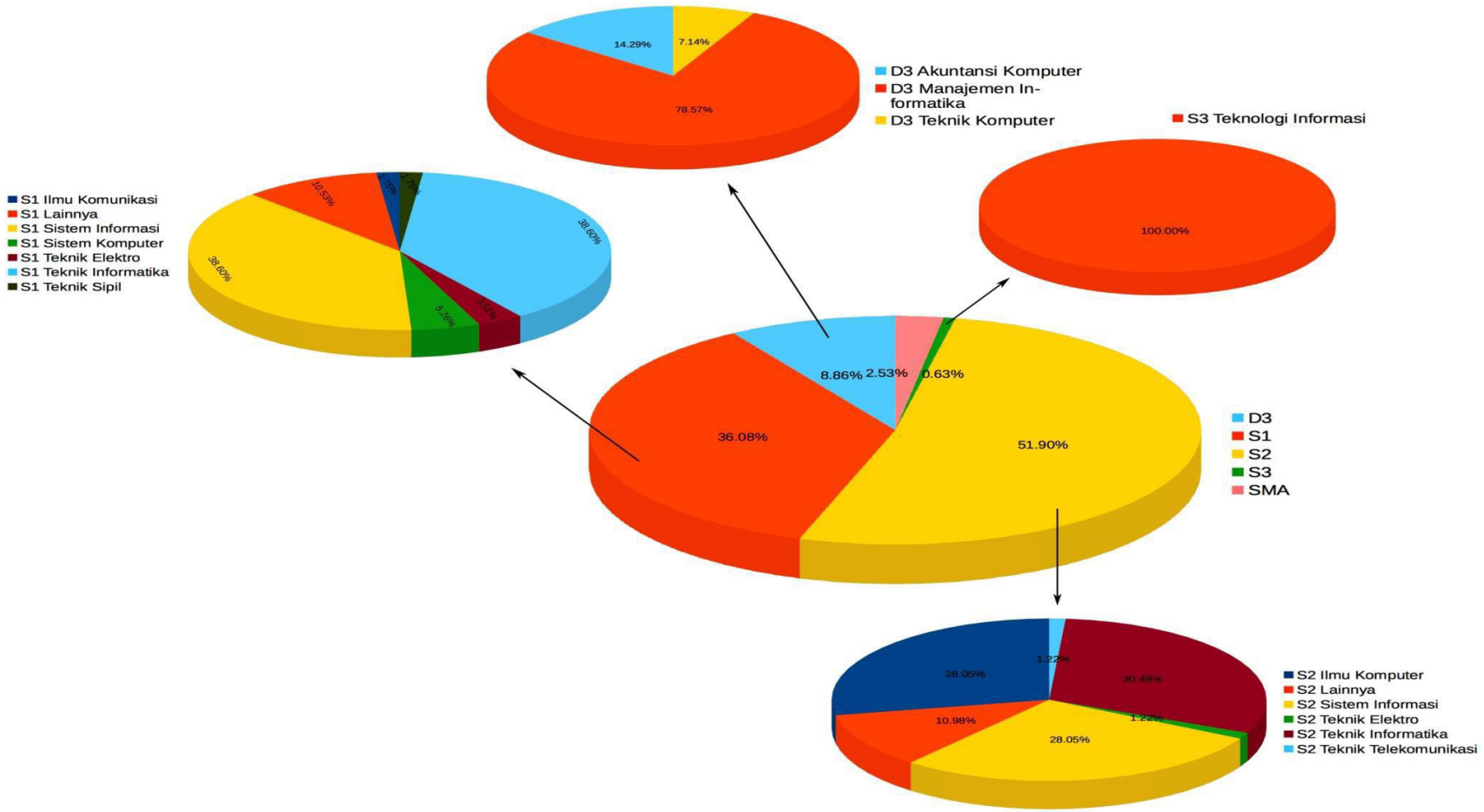
# Kompetensi Bidang TI




Sumber Aptikom

# Kebutuhan SDM TI Berdasarkan Kompetensi




14.29%
7.14%
78.57%
D3 Akuntansi Komputer
D3 Manajemen In-formatika
D3 Teknik Komputer
S3 Teknologi Informasi
100.00%
S1 Ilmu Komunikasi
S1 Lainnya
S1 Sistem Informasi
S1 Sistem Komputer
S1 Teknik Elektro
S1 Teknik Informatika
S1 Teknik Sipil
10.53%
38.60%
38.60%
5.26%
8.86%
2.53%
0.63%
36.08%
51.90%
D3
S1
S2
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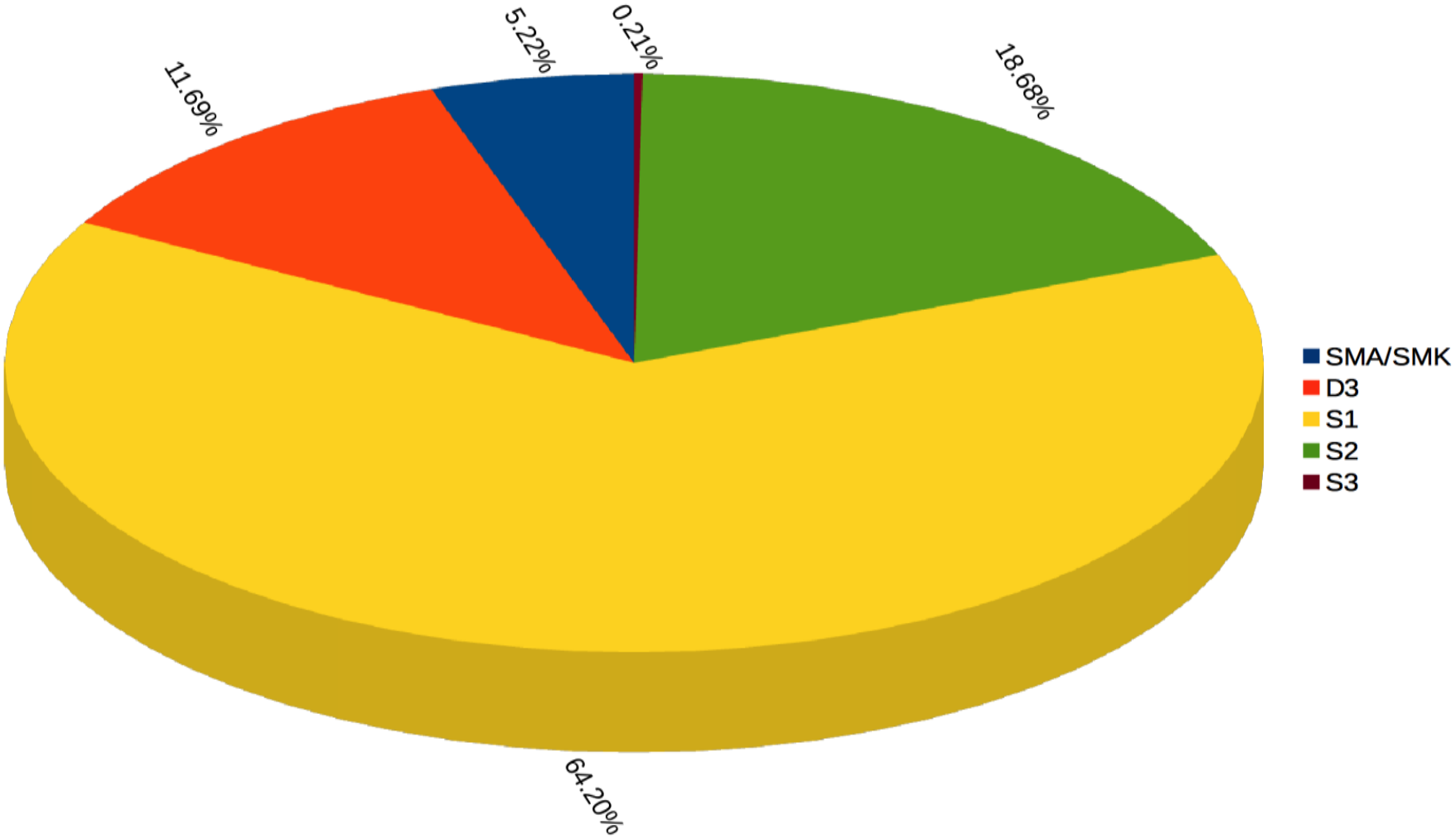
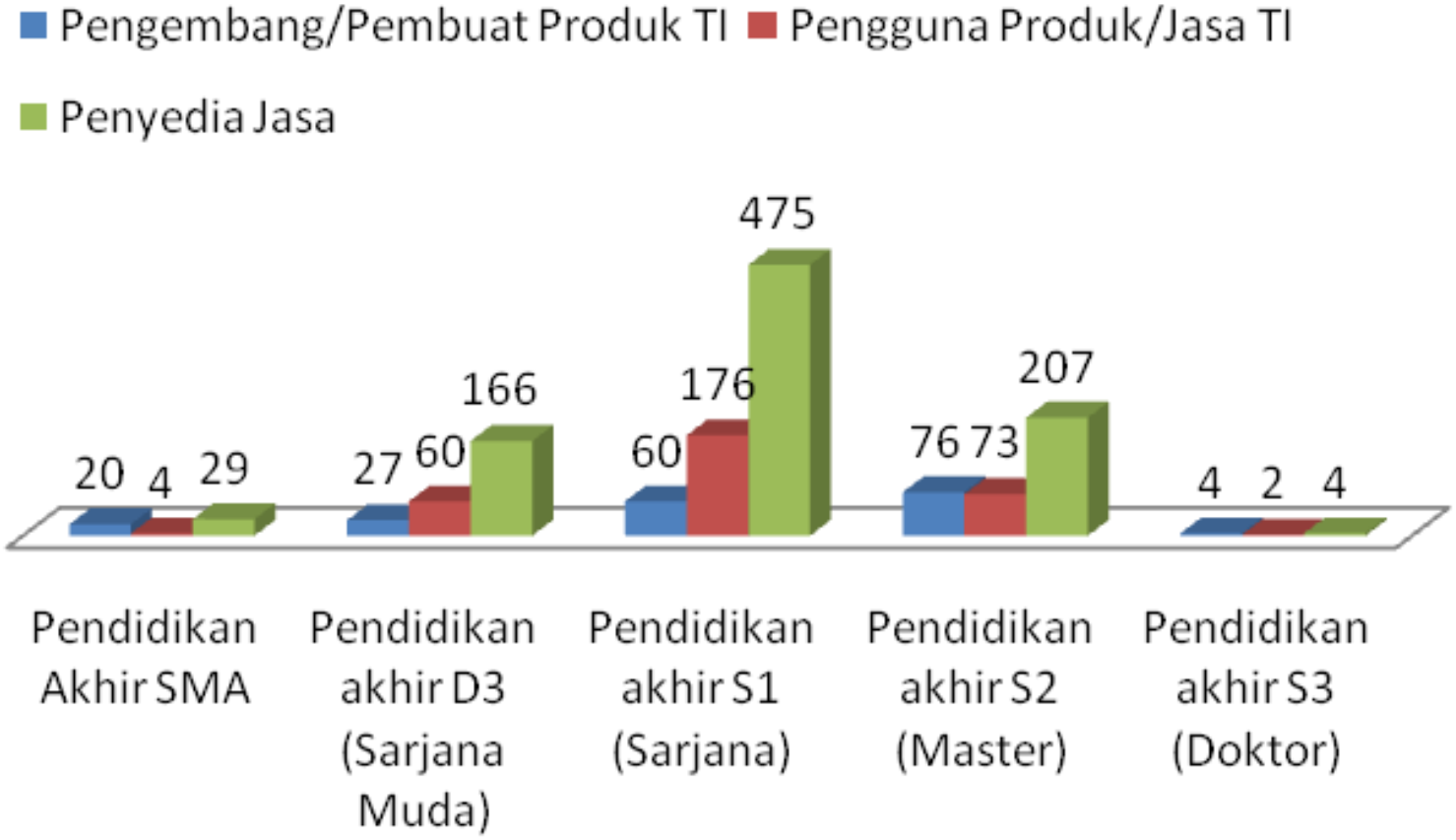
SMA
28.05%
1.22%
30.49%
10.98%
1.22%
28.05%
S2 Ilmu Komputer
S2 Lainnya
S2 Sistem Informasi
S2 Teknik Elektro
S2 Teknik Informatika
S2 Teknik Telekomunikasi


5.22%
0.21%
18.68%
11.69%
64.20%
SMA/SMK
D3
S1
S2
S3


Ketersediaan SDM berd.Pendidikan AKhir
Pengembang/Pembuat Produk TI
Pengguna Produk/Jasa TI
Penyedia Jasa
20 4 29
27 60 166
60 176 475
76 73 207
4 2 4
Pendidikan Akhir SMA
Pendidikan akhir D3 (Sarjana Muda)
Pendidikan akhir S1 (Sarjana)
Pendidikan akhir S2 (Master)
Pendidikan akhir S3 (Doktor)

# Internet & Information Technology Position Descriptions HandiGuide(Copyright 2001 –2015 Janco Associates, Inc. and M. Victor Janulaitis)

Version History, Januari 2015, added job descriptions

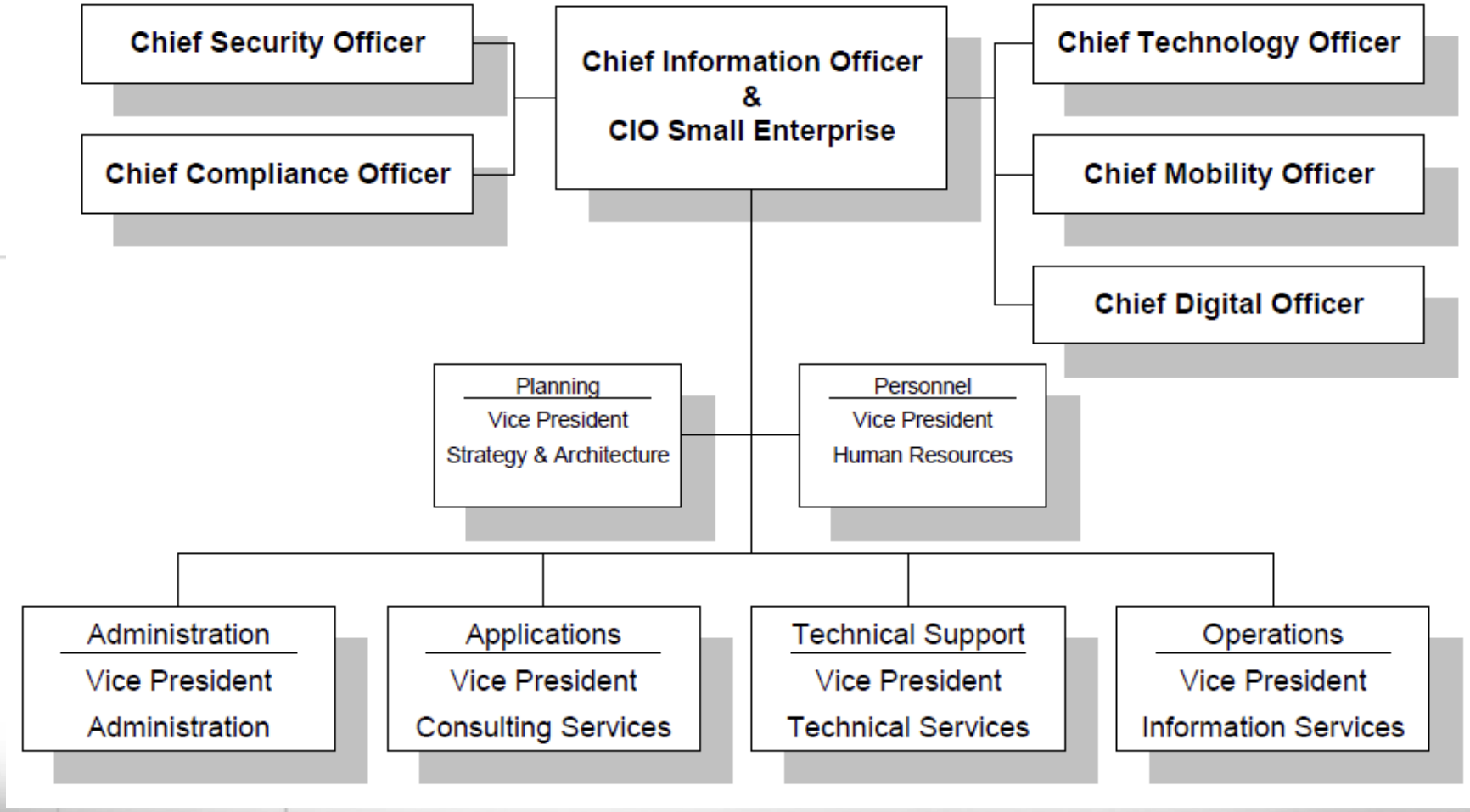
- 1.BYOD Support Specialist
- 2.Chief Digital Officer
- 3.Cloud Computing Architect (Initially added in January 2011)
- 4.Manager BYOD Support
- 5.Manager ISO Implementation
- 6.Manager Safety Program
- 7.Supervisor Safety Program

# Lists of Position Descriptions

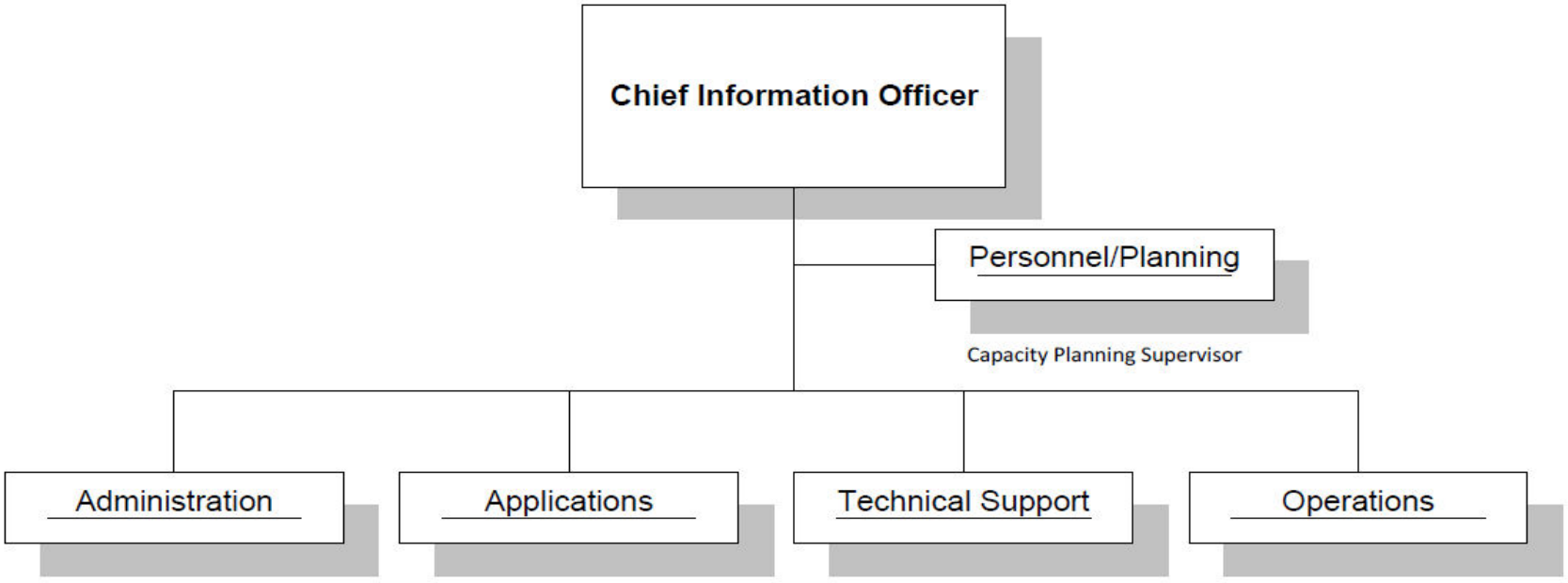
- **Executive Management -**These positions include the Chief Information Officer and positions that typically report directly to the CIO.
- **Senior Management -**These positions include Directors and Managers.
- **Middle Management -**These positions include Supervisors and senior level technologists.
- **Staff Positions -**These positions include individual performers. In addition to this, this section of the book contains a Job Progression Matrix that we often use when we develop customized job descriptions for our clients

# Levels of “competence” for a single job function

- **Associate Level -**Full use and application of standard principles, theories concepts and techniques associated with the position.
- **Position Level -**Wide application of principle, theories and concepts in the field plus working knowledge of other related disciplines associated with the position.
- **Senior Level -**Applies extensive knowledge as a generalist or specialist with working expertise of all job functions associated with the position.
- **Intern or Entry Level** –the position description requires the level of competence that a new employee with little or no experience brings to the position. Over time the individual will gain experience and knowledge from the work environment or training.
- **Specialist Level -**Applies advanced principles, theories and concepts. In addition, contributes to the development of new principles and concepts associated with the position.


Chief Security Officer
Chief Compliance Officer
Chief Information Officer & CIO Small Enterprise
Chief Technology Officer
Chief Mobility Officer
Chief Digital Officer
Planning
Vice President
Strategy & Architecture
Personnel
Vice President
Human Resources
Administration
Vice President
Administration
Applications
Vice President
Consulting Services
Technical Support
Vice President
Technical Services
Operations
Vice President
Information Services

# Middle Management



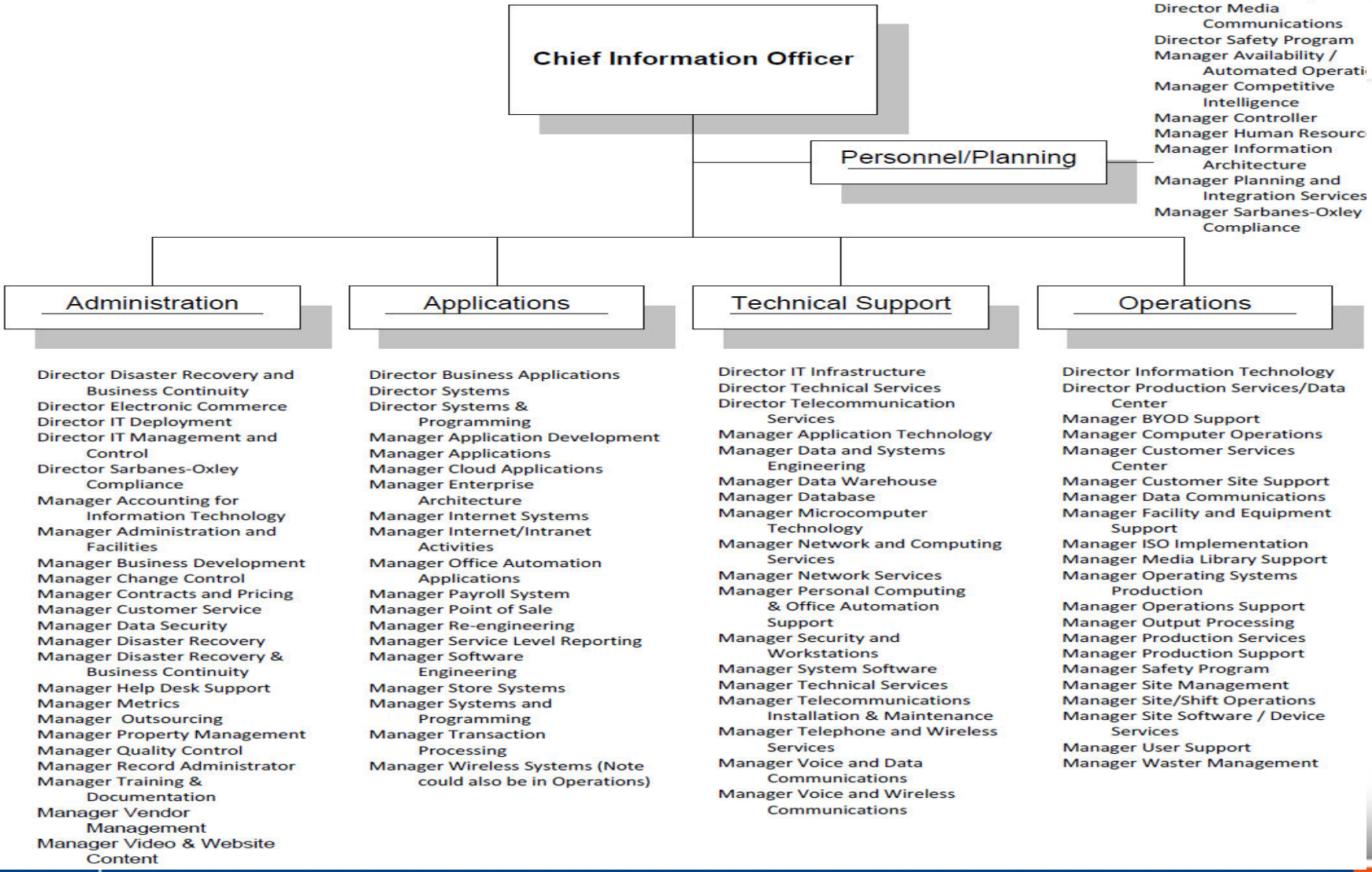

- Accounting Supervisor
- Assistant Controller
- Change Control Supervisor
- Communication Administrator
- Contract Management Administrator
- Customer Service Coordinator Lead
- Disaster Recovery/Special Projects Supervisor
- PCI-DSS Coordinator
- Procurement Administrator
- Record Management Coordinator
- Supervisor POS Training
- Word Processing Supervisor

- Project Manager Applications
- Project Manager Distributed Systems
- Project Manager Enterprise Architecture
- Project Manager ERP
- Project Manager Implementation Deployment
- Project Manager Systems
- Project Manager Training
- Supervisor POS
- System Administrator
- System Administrator Lead
- System Administrator Windows
- System Administrator UNIX
- System Administrator Linux
- Webmaster

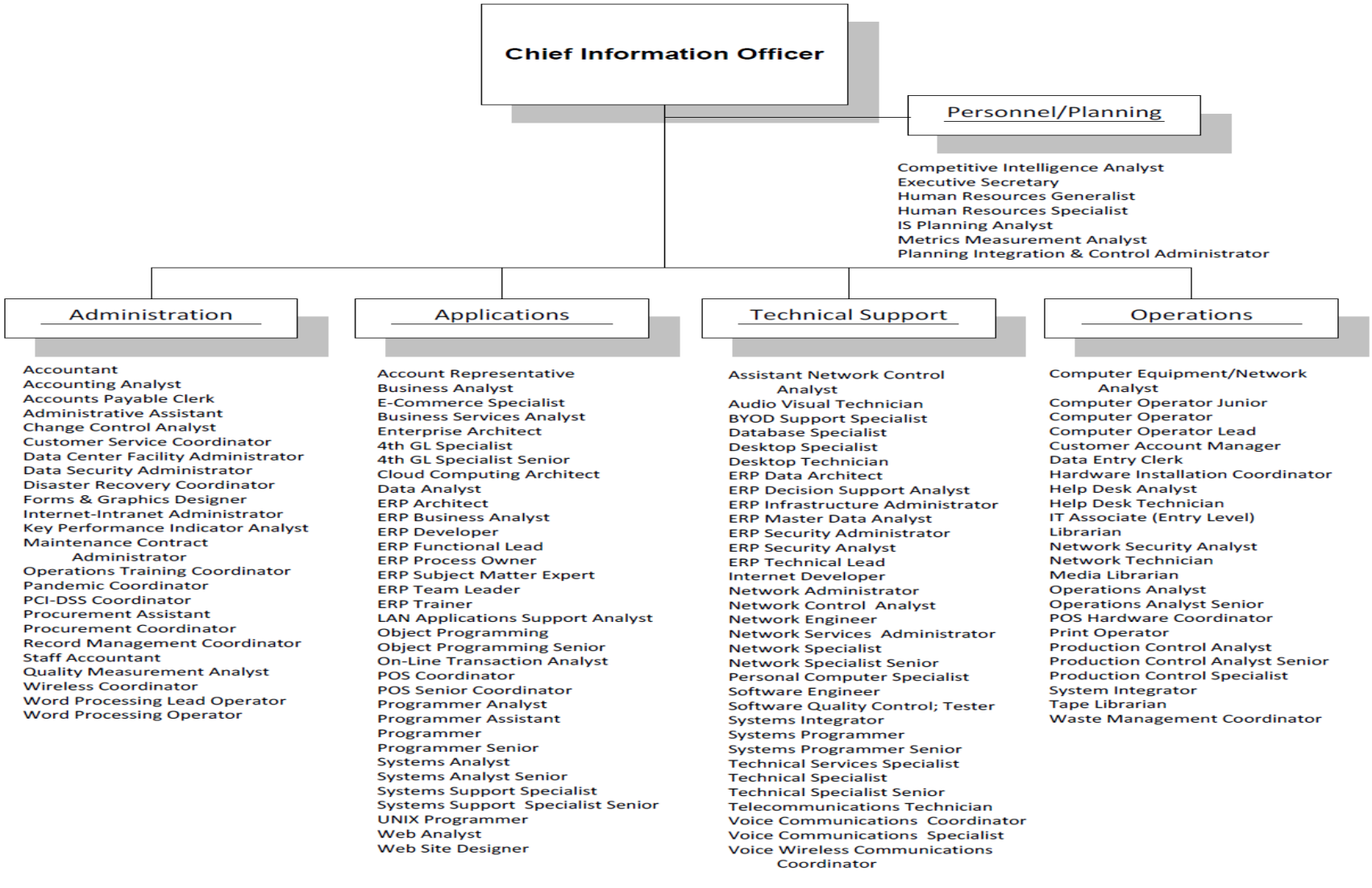
- Data Communications Assistant Manager
- Database Administrator
- Desktop BYOD Support Supervisor
- Information Center Manager
- Microcomputer Support Supervisor
- Network Services Supervisor
- Project Manager Network Technical Services
- Voice Communications Manager

- Computer Operations Assistant Manager
- Computer Operations Assistant Supervisor
- Computer Operations Shift Manager
- Computer Operations Shift Supervisor
- Customer Service Supervisor
- Data Entry Supervisor
- Hardware Installation Supervisor
- Production Services Supervisor
- Supervisor Safety Program
- Waste Management Coordinator

# Senior Management



# Staff


Chief Information Officer
Personnel/Planning
Competitive Intelligence Analyst
Executive Secretary
Human Resources Generalist
Human Resources Specialist
IS Planning Analyst
Metrics Measurement Analyst
Planning Integration & Control Administrator
Administration
Accountant
Accounting Analyst
Accounts Payable Clerk
Administrative Assistant
Change Control Analyst
Customer Service Coordinator
Data Center Facility Administrator
Data Security Administrator
Disaster Recovery Coordinator
Forms & Graphics Designer
Internet-Intranet Administrator
Key Performance Indicator Analyst
Maintenance Contract Administrator
Operations Training Coordinator
Pandemic Coordinator
PCI-DSS Coordinator
Procurement Assistant
Procurement Coordinator
Record Management Coordinator
Staff Accountant
Quality Measurement Analyst
Wireless Coordinator
Word Processing Lead Operator
Word Processing Operator
Applications
Account Representative
Business Analyst
E-Commerce Specialist
Business Services Analyst
Enterprise Architect
4th GL Specialist
4th GL Specialist Senior
Cloud Computing Architect
Data Analyst
ERP Architect
ERP Business Analyst
ERP Developer
ERP Functional Lead
ERP Process Owner
ERP Subject Matter Expert
ERP Team Leader
ERP Trainer
LAN Applications Support Analyst
Object Programming
Object Programming Senior
On-Line Transaction Analyst
POS Coordinator
POS Senior Coordinator
Programmer Analyst
Programmer Assistant
Programmer
Programmer Senior
Systems Analyst
Systems Analyst Senior
Systems Support Specialist
Systems Support Specialist Senior
UNIX Programmer
Web Analyst
Web Site Designer
Technical Support
Assistant Network Control Analyst
Audio Visual Technician
BYOD Support Specialist
Database Specialist
Desktop Specialist
Desktop Technician
ERP Data Architect
ERP Decision Support Analyst
ERP Infrastructure Administrator
ERP Master Data Analyst
ERP Security Administrator
ERP Security Analyst
ERP Technical Lead
Internet Developer
Network Administrator
Network Control Analyst
Network Engineer
Network Services Administrator
Network Specialist
Network Specialist Senior
Personal Computer Specialist
Software Engineer
Software Quality Control; Tester
Systems Integrator
Systems Programmer
Systems Programmer Senior
Technical Services Specialist
Technical Specialist
Technical Specialist Senior
Telecommunications Technician
Voice Communications Coordinator
Voice Communications Specialist
Voice Wireless Communications Coordinator
Operations
Computer Equipment/Network Analyst
Computer Operator Junior
Computer Operator
Computer Operator Lead
Customer Account Manager
Data Entry Clerk
Hardware Installation Coordinator
Help Desk Analyst
Help Desk Technician
IT Associate (Entry Level)
Librarian
Network Security Analyst
Network Technician
Media Librarian
Operations Analyst
Operations Analyst Senior
POS Hardware Coordinator
Print Operator
Production Control Analyst
Production Control Analyst Senior
Production Control Specialist
System Integrator
Tape Librarian
Waste Management Coordinator