



Who Should Read

CIO
Director of Service Management
Help Desk Manager
IT Managers

Extending the Student IT Workforce

Engaging Students and Managing Risk to Increase Student Employee Value

Study in Brief

This report profiles the strategies that progressive institutions are using to increase the productivity of student workers and their value to the campus IT organization. Engagement driven by long-term projects and accountability measures to mitigate risks facilitates professional development for students and lower-cost employees for the institutions.

5 Ways to Use This Research

- Structuring long-term projects for student employees
- Evaluating student employee performance
- Screening prospective student employee maturity and risk level
- Brainstorming roles for student employees beyond the help desk
- Developing a pipeline of IT talent from student employees

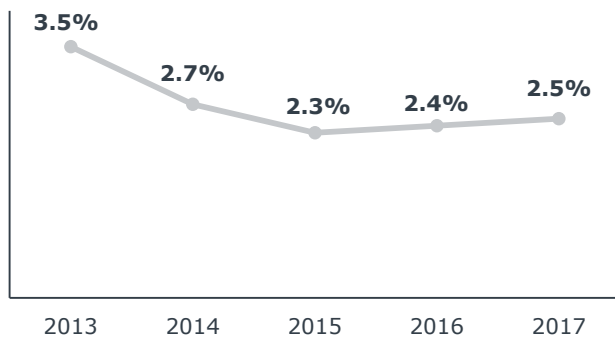
Environmental Pressures on the “FTE-Only” Model

Opening the Talent Pool Increases Adaptability

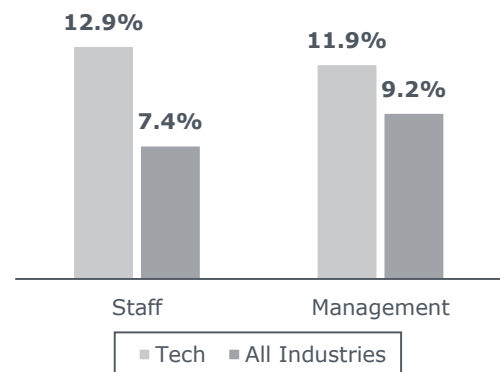
IT departments have long been dependent on full-time employees, augmented by traditional contractors. However, with 87 percent of managers indicating that additional staff positions are at least moderately important in order to meet institutions’ needs in the next three years, CIOs and others on campus question how to fill those roles. While managers and IT leadership would typically turn to FTEs, market forces make that hard, and financial constraints and technological changes bolster these challenges.

A Tough Market for IT Talent Recruitment

Tech Unemployment



Job Growth Forecast, 2016-2026



Seeking an Alternative to FTEs

Full-time employees do bring clear benefits to an institution, including greater productivity from tenured staff, and deeper organizational knowledge and relationships. However, full-time employees are expensive and costly to onboard and offload. In addition, a market that makes it difficult to recruit into the higher education industry means that alternatives, including upskilled student workers, are increasingly attractive.

“Beyond the Help Desk” Student Workers

Student workers are often the backbone of the help desk, triaging requests and providing Tier I support. But they also have the potential to offer greater value to both the service management department, through longer term projects and more complicated technical support, and elsewhere across the IT organization. Therefore, concerns related to engagement and risk limit their value at institutions without appropriate vetting and opportunities for extended projects.

Source: Dice.com Tech Employment Snapshot 2014-2017; Bureau of Labor Statistics.

Overcoming Challenges to High-Skill Student Work

Mitigating Risk and Promoting Engagement

Two Barriers to Increasing the Value of Student Workers



Risk

Giving students higher-value projects increases their access to systems and data, which generates risks for the institution. While IT managers report that as a whole their student employees are well-intentioned and responsible, concerns related to maturity and professionalism may needlessly limit them to low-value roles because of legal and financial concerns. Whether it's temptation to improve their number in the housing lottery or change a grade, or the slip of a finger that exposes a vulnerability in security, untried employees operating in more complex environments increase institutional risk.



Reliability

Competing priorities make students unreliable workers, and limiting students to help desk work exacerbates the challenges of disengagement. Typical help desk roles are inherently lower-skill positions, have no clear applicability to future career goals, lack advancement or incentive opportunities, and have limited exposure to broader activities in the IT organization. With this disconnect between the role and more ambitious personal goals, student performance and responsiveness to departmental and community needs may suffer.

Expanding Student Value in IT Service Departments

Students are a critical component of the help desk workforce – they can comprise up to two-thirds of FTEs at institutional help desks, and save upwards of 50 percent of labor costs across employment in computer labs, help desks, and service centers. This value can be scaled across the IT function, but only if students are trusted, and put in roles that build engagement in their work while providing greater benefits to the institution.

When IT managers invest in strategic recruitment for student employees and hold them accountable to institutional processes, they can be trusted to complete project-based work that creates a virtuous cycle of value for the institution and benefit to the students. Vetted and valued students can develop specialized skillsets, complete more complex and longer-term projects, and take advantage of opportunities for growth and ownership. Even if student employees require additional training and turn over relatively often, the additional support at lower cost is a viable alternative to additional FTEs.

What the Best Are Doing

Practices to decrease risk and expand the value of student employees on campus include revised hiring processes and evaluations to instill accountability, and structured projects and internships to increase engagement.

Vetting Students to Limit Risky Hires



Screens to Identify Low-Risk Student Candidates

Identifying Student Workers with a Track Record of Reliability

IT managers seek referrals from trusted sources who can pre-vet prospective employees. This limits the number of less mature student applicants, who may create security and liability risks for the institution. Standardizing relationships with these people and organizations streamlines the process to recruit reliable student employees.

Building Accountability into Student Roles



Student Employee Evaluation Toolbox

Holding Student Workers to the Same Norms as Full-Time IT Staff

Systematic student employee performance evaluations can identify unreliable employees early in their employment or address risky behavior. Holding students accountable to professional norms of all IT employees allows them to be placed in higher-risk, higher-value roles. Review policies also offer structures to put on probation or terminate employees who place technology or data assets at risk, and reward high-performing students.

Structuring Student Roles For Long-Term Engagement



10 Weeks+ IT Projects for Student Employees

Sourcing and Managing High-Value Student Work

Projects for student employees that extend beyond a single shift give students ownership of their work in a way that increases their engagement and reliability in their IT service management roles. When student employees work on a single project over the course of a semester, they extend the IT department's capacity for complex work and fulfill the institutional mission to educate students in digital citizenship.

Looking for Frontier Practice

— “ —

How can we meet campus IT service needs with limited funding for additional full-time staff?

CIOs asked the Forum to find promising, replicable approaches to help extend workforce capacity through expanded student employment, without increasing risk or decreasing service to campus.

This brief is based on understanding gained from diverse higher education IT leaders. We are grateful to interviewees for sharing institutional insights and leading practices. We have abstracted the institutional insights to make them more generalizable for colleges and universities with different missions and budgets, but the Forum’s work is, as ever, grounded in the proven innovations of progressive practitioners.

Featured Institutions—With Sincere Appreciation



Frank Reda
University Director, Enterprise Service Delivery

Keri Budnovitch
Director, OIT Enterprise Service Delivery

Ana Verma
Associate Director, OIT Enterprise Service Delivery

JT Chirco
Senior Computer Facilities Manager



Adry S. Clark
Director, Service Learning and Career Development

Kathryn Plummer
Assistant Director, Experiential Learning, Service Learning & Career Development

Selected Research Participants

Shannon Valerio
University of Denver

Beth Ambort
University of Wisconsin - Platteville

Jerome Hilscher
Drake University

Lauren Adams
Saint Joseph's University

Tom Langdon
University of Alaska, Fairbanks

Curtis Spears
Our Lady of the Lake University

Jake Bushnell
Bryant University

John Landers
Case Western Reserve University

Screens to Recognize Low-Risk Student Candidates



Identifying Student Workers with a Track Record of Reliability

Practice in Brief

IT managers identify individuals and organizations on campus who can serve as a maturity filter for potential student employees. These organizations develop relationships with students who might be interested in employment within the IT service management department, and who will vouch for prospective employees' trustworthiness and reliability. Through consistent communication, they streamline the process to increase the quality of prospective student employees.

Implementation Steps

- Create a list of department chairs, individual faculty members, student organizations, and other IT hiring managers that may have relationships with students who exhibit necessary qualities for IT student employees. The goal is not necessarily to source students with experience in IT, but instead find students with interest in the roles and with references or experience that engenders trust in their performance.
- When building a reference network, contact the people and organizations on this list to introduce yourself as you post job openings, and inquire about their willingness to refer specific students to your positions. In this communication:
 - Emphasize the sensitive nature of information and assets these employees may have access to
 - Communicate the importance of reliability for student employees working in the IT service management department
 - Provide a copy of the position posting, to ensure that the referrals are best suited for the position(s) you are currently considering candidates for
- Track which people and groups source the candidates who are mostly likely to receive an offer of employment, and who perform well in the role, to ensure that you maintain a relationship with their referrers and conduct similar outreach to them in subsequent years.

Benefits to Institution

- » Increased likelihood of identifying high-quality student employees, with less effort
- » Risk to the institution due to untrustworthy or negligent student employees decreases



Word of mouth and referrals are the best way for us to hire students for retention – and that doesn't just mean students who will return for multiple semesters, but also students who we *want* to come back because they are reliable. Actually speaking to references is one of the most important parts of the hiring process."

IT Support Specialist
Public Master's University



Spotlight Practice

Contacts to Help Expand the Pool of Quality Student Applicants with Desired Experiences and Interests



Maturity

- Chair and faculty in the Computer Science Department
- Chair and faculty in the Mathematics Department
- Chair and faculty in the Communications Department
- Chair and faculty in social science departments with quantitative requirements (e.g., economics, political science, psychology)
- Teaching Assistants in entry-level courses in relevant departments

Make sure to communicate to faculty members interest in hiring graduate-level, as well as undergraduate, students



Technical Interest

Officers (e.g., president, vice president, treasurer) or faculty and staff advisors for organizations such as:

- Women in Technology
- Computing Competition Team
- Communication Association
- Business and Information Technology Society
- Association of Computing Machinery
- Cybersecurity Club



Diversity

Campus office staff or student organization officers that serve affinity groups based on:

- Gender
- Sexual Orientation
- Ethnicity/nationality
- Religion
- Disability
- Medical History

Finding IT Student Employees Prepared for Greater Responsibility



While referrals are an invaluable source of talent for the IT organization, hiring managers should take steps to ensure that they do not perpetuate existing hiring biases; they should strive to avoid self-replication.

Student Employee Evaluation Toolbox



Holding Student Workers to the Same Norms as Full-Time IT Staff

Practice in Brief

Systematic evaluations for student employees, conducted by their IT supervisors, give students a greater sense of ownership for their work, and encourage responsibility to the campus community to provide high-quality service and limit institutional exposure to risk. These conversations emphasize to students the significance of their roles, and also provide a format to review student work for errors or vulnerabilities.

Implementation Steps

- **Create an inventory of types of student employees** within the IT service organization. Determine whether all employees can be evaluated using a single rubric, or if different roles or departments need to modify beyond a core set of department-wide skills.
- **Determine which skills are universal to all student employees**, and articulate department-wide expectations related to these competencies. Include a standardized scale for evaluating employees, and definitions to categorize performance to each level on the scale.
- **Articulate next steps** for students who fail to meet expectations outlined in performance reviews, especially for actions that expose the institution to legal or security risks, or the department to reputational risk.
- **Integrate performance evaluation tools** with other software, when applicable, to automate performance tracking competencies related to areas such as attendance, campus survey feedback, and data quality.
- **Require supervisors to complete evaluations on a semester or annual basis.** Identify students who are performing poorly and put in place plans to modify their behavior or terminate their employment, and students who are exceeding expectations and should be considered for higher-skilled roles.

Benefits to Institution

- › Students alter behavior to improve quality of service and lower institutional risk
- › Mentoring students provides early-career staff lower-stakes opportunities to develop leadership skills



I understand why some institutions don't give employees students evaluations – it can be a hugely time consuming process. But we need to talk to students about their performance, both to recognize high and low performers, and to help them understand the value of their work and its applicability to their careers in or outside of IT.”

Director, IT Support Services
Private Research University



Overcoming Common Objections to Systematic Student Evaluation



Common Objection: It's time consuming for IT supervisors to offer individualized feedback to students



Solution: Automate as much of the process to collect student performance metrics as possible

Perfect Performance Merits		Minor Infractions - 10 percentage points
30 merits will be received for each period in which no warnings or infractions occur. Consultants who are on probation do not receive perfect performance for that period.		*Lateness under 15 minutes
Fall Period 8/20/16 - 12/31/16	Spring Period 1/1/17 - 5/10/17	Lateness of 15 mins or more, with notice
Major - 50 Merit Incidents		Lateness to staff meeting/training
Consultant of the Semester Award		*Failure to follow coverage procedure
Permanent assignment to hard to fill shift		Repeated requesting of emergency coverage
Moderate - 30 Merit Incidents		*Failure to sign-in/out properly
Consultant of the Month Award		Failure to follow shift turn-over protocol - leaving without relief/unauthorized breaks
Promotion		Failure to comply with work hours policy
Minor to Moderate - 10 to 30 Merit Incidents		*Inattention to responsibilities and/or users
Volunteering for tasks or projects		*Poor work ethic or attitude (Minor)
Special project		*Poor communication
Exceptional handling of an unusual situation		Minor failure to enforce/follow procedures or rules
Emergency coverage (Merits based on conditions)		Minor failure to cooperate with management or coworkers
These incidents may be awarded 10, 20 or 30 merits		Failure to address or escalate a problem correctly
		*Failure to properly log in to the SC staff chatroom
		Failure to read/respond to work email in a timely manner
		Failure to complete assigned task/project by deadline
		*Failure to wear a badge or display nameboard
		*Minor substandard ticket writing

A student-built system automatically collects information about students' tickets, customer satisfaction, attendance, and other relevant metrics to limit time spent by supervisors aggregating data.

Students start with a 100% performance rating; rather than earning points, supervisors operate from a position of trust and all students start the review period with perfect performance.

Guidelines for behavior emphasize rewards for community support and exceptional service – performance tracking is equally designed to incentivize positive behavior.

A hierarchy of incidents demonstrates the severity of certain behaviors, and associated consequences.



Common Objection: Expectations for non-technical competencies are difficult to articulate



Solution: Use existing language in full-time employee rubrics and policies to inform student evaluations

1

Acceptable Use Policies

Require student employees to review and sign existing acceptable use policies for the institution; include adherence to the policy in performance rubrics

2

Non-Disclosure Agreements

Although NDAs are most often used for third party vendors, adapt them for student employees to impress upon them the importance of discretion when they get access to sensitive information

3

Institutional Review Board (IRB) Documentation

Borrow language from IRB training and documents to articulate expectations to students related to different types of data they may access governed by regulations related to PII, HIPAA, or FERPA

10 Weeks+ IT Projects for Student Employees

Organizing High-Value Student Work



Practice in Brief

Ownership for IT projects with the duration of a semester or longer improves student employees' reliability and quality of work, while completing initiatives within the IT organization that would otherwise not be done or would require the attention of a full-time employee. Students receive the benefits of a traditional internship, including: a position within a functioning business, a supervisor with expertise in the field, and the development of skills transferable to other industries and organizations.

Implementation Steps

- Identify partner organizations such as academic departments, center for experiential learning, career services, or other offices in the student affairs or academic divisions. These units can help provide funding for salaries, evaluate potential student employee roles, and advertise positions.
- Secure funding for student employee salary; at Western Oregon University students receive \$1,000 for 10 weeks of work, paid by the Career Development Center.
- Preferably in collaboration with the institutional partners, identify requirements for supervisors or units hoping to hire a student employee for a project. Requirements to consider include manager availability, project scope, and defined student employee learning outcomes.
- Ask units to submit applications to host a long-term student employee. Evaluate possible student employee placements and select those with the most clearly defined student roles and responsibilities and greatest institutional need. Publicize these opportunities through the career services center and other on-campus partners.
- Require students to submit a formal resume, undergo basic professional skills training through the career services center, and complete a formal interview prior to receiving an offer for project-based student employment. This sets expectations for applicants about required commitments in the role, limits the amount of non-position specific coaching supervisors must provide, and ensures that selected students are appropriate for the job.
- Manage student employees to complete outlined roles and responsibilities, providing feedback and support during the course of their work.

Benefits to Institution

- › Completion of IT projects that would otherwise require additional time from full-time staff
- › Contribution to the university mission of student development
- › Improved student employment outcomes
- › Identification of possible candidates for full-time employee positions after graduation



IT can offer students a great opportunity for experiential learning – it's helping the university develop a pipeline of IT workers, which will benefit us in the long run, but it's also helping the university develop those skills in students, which will support them in a pretty much any future role."



Identifying Opportunities for Long-Term Projects

Characteristics of Quality Long-Term Project Placements

- Position within a functioning business
- Reporting line to a professional with expertise in the field
- Assignments and responsibilities target field-specific learning outcomes
- Skills developed are transferable to other organizations or companies
- Access to resources and facilities necessary for learning outcomes

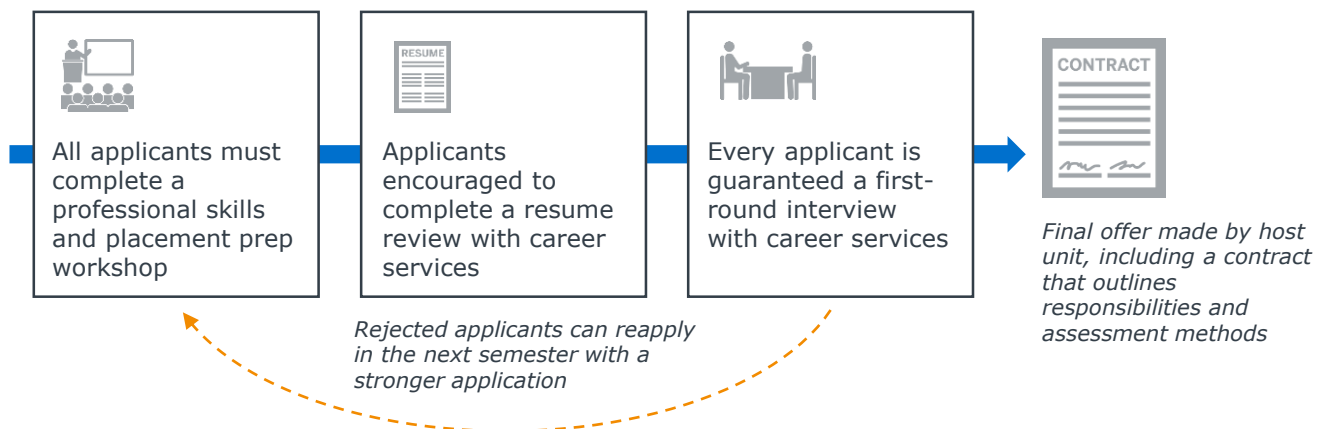
Select Service Management Opportunities

- Set up or refresh instructional technology in a classroom or academic building
- Conduct analysis on metrics available in the ITSM system to evaluate performance against KPIs
- Create a communication plan and manage communications for the IT service management organization
- Integrate the service management system with other tools to increase proactive servicing of technology

Prior to Advertising a Student Employee Job Posting for Non-Shift Work, Define:

- Supervisor availability and willingness to supervise student employees
- Learning objectives for the student
- Roles and responsibilities to achieve learning objects and support departmental needs
- Experience and qualifications for applicants (i.e., knowledge, skills, and abilities)
- Desired academic background (i.e., majors and minors)

Create an Application Process that Vets Students and Trains them in Professional Norms



32*

Students received on-campus placements in 2016

110

Students received career development as part of this program in 2016

* This is the number of placements across administrative units at Western Oregon University, not just the IT Service Management unit.



DISCUSSION GUIDE

Extending the Student IT Workforce

Using this Report to Speed Consensus for Change

Many Forum members use our research as an occasion to convene IT and campus leaders. Together, they review best-practice lessons from innovative higher education institutions and deliberate about the need to revisit policies, implement new processes, or reallocate staff and budget dollars.

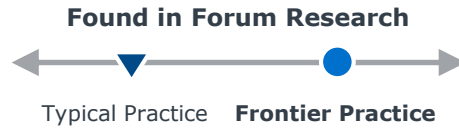
Forum reports now feature self-evaluation diagnostics and discussion guides that IT leaders can use as a backbone for focused working sessions. We recommend that members distribute this report to the relevant stakeholders as pre-reading to establish a common vocabulary and fact base. Then, spend time going through the diagnostics and discussion questions to decide whether policy course-corrections or resource re-allocations make sense. Forum staff would be delighted to facilitate such discussions live on your campus or on a private webconference as helpful.

Creating a One-Hour IT Team Working Session

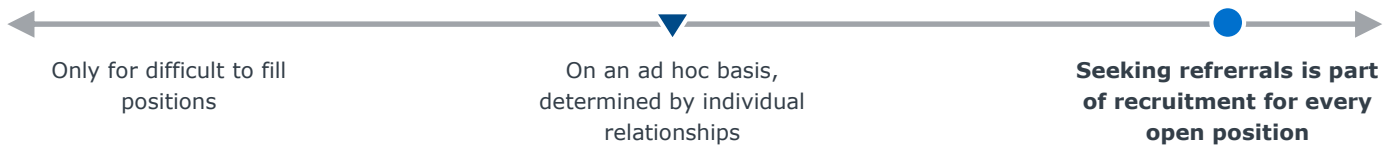
- Send report to IT leadership or IT management committees or taskforces for pre-reading
- Convene group to discuss diagnostic questions and assess need for adopting profiled practices
- Contact IT Forum for implementation support:
 - Unmetered consultation with Forum researchers
 - Networking contact with profiled institutions
 - Model policy and process templates

Screens to Recognize Low-Risk Student Candidates

IT managers seek referrals from trusted sources who can pre-vet prospective employees. This limits the number of less mature student applicants, who may create security and liability risks for the institution. Standardizing relationships with these people and organizations streamlines the process to recruit reliable student employees.



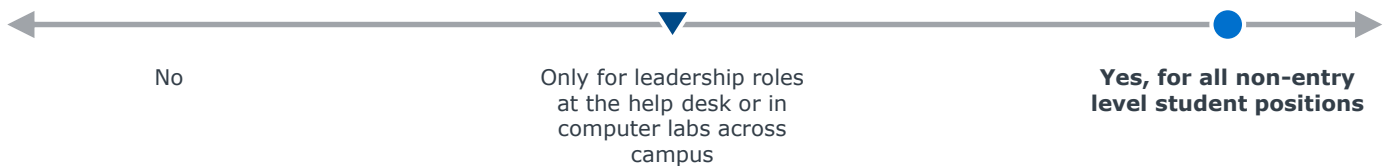
1. How often do IT hiring managers seek candidate referrals?



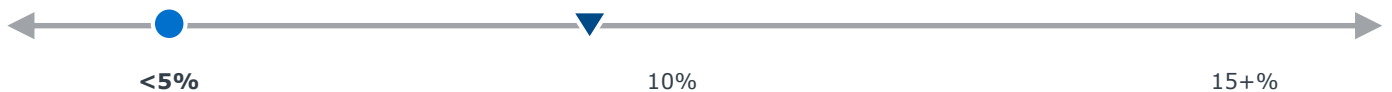
2. From whom do IT hiring managers source candidate referrals?



3. Do evaluate students on their demonstrated professional maturity, or the recommendations of others in help desk roles prior to consideration for higher-skilled positions?

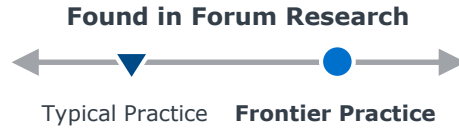


4. What percentage of your student employee workforce routinely exposes your institution to risk, through either mishap or ill intent?

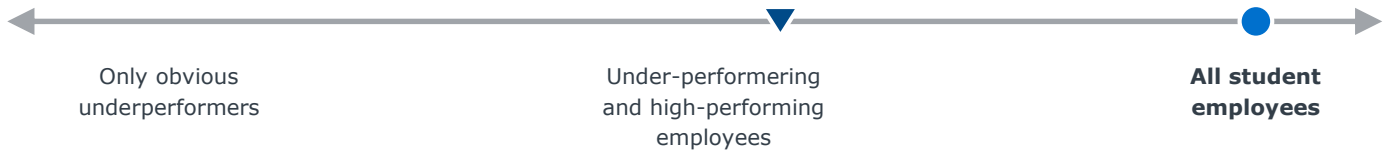


Student Employee Evaluation Toolbox

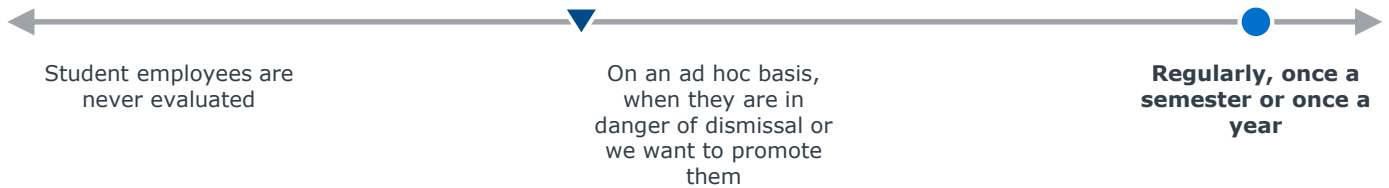
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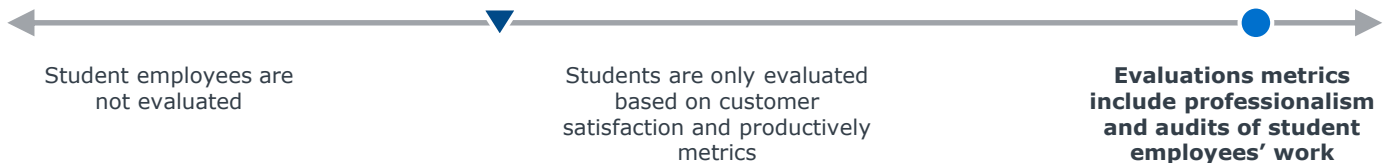
1. Which student employees receive formal performance evaluations?



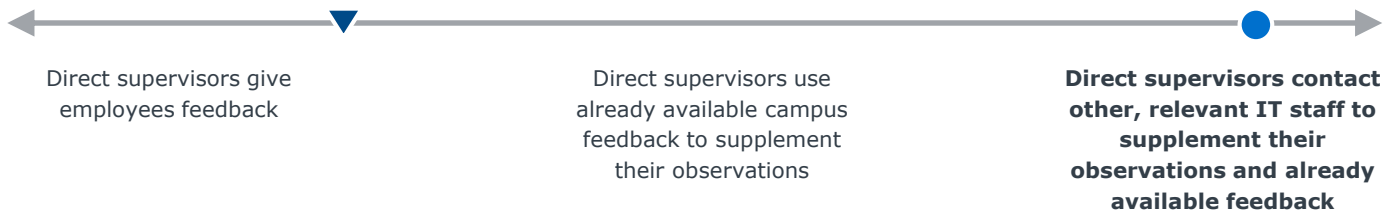
2. How often do student employees receive a formal evaluation?



3. On what aspects of their performance do you evaluate student employees?

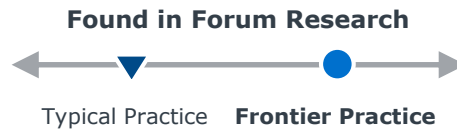


4. Who contributes to student employee performance evaluations?

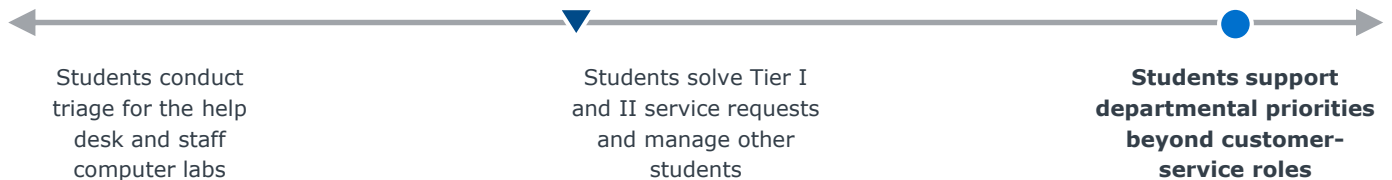


10 Weeks+ IT Projects for Student Employees

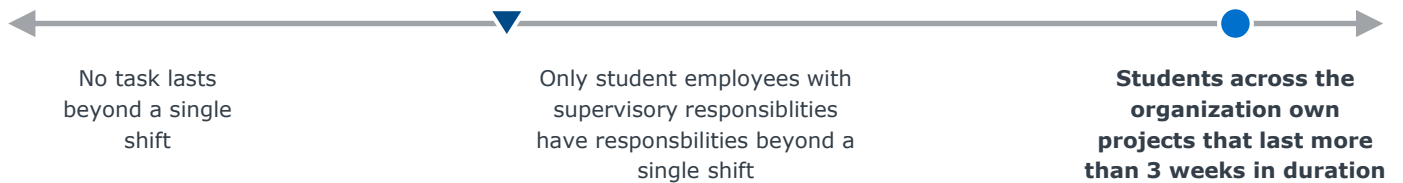
Projects for student employees that extend beyond a single shift give students ownership of their work in a way that increases their engagement and reliability in their IT service management roles. When student employees work on a single project over the course of a semester, they extend the IT department’s capacity for complex work and fulfill the institutional mission to educate students in digital citizenship.



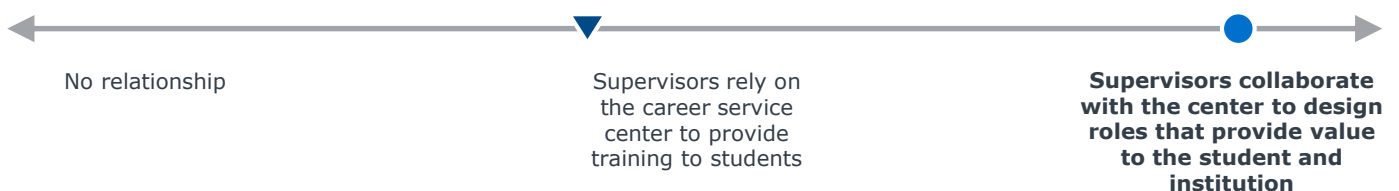
1. What roles do student employees currently fulfill in your IT service management organization?



2. What is the duration of student employee responsibilities?



3. What relationship do student employee supervisors have with the career development center?



Project Director

Scott Winslow

Contributing Consultants

Anna Krenkel

Design Consultant

Kevin Matovich

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