

<u>Research Networking Tool</u>	<u>URL</u>	<u>Fully developed</u>	<u>Open Source</u>	<u>Data Source Infeed/Functionality</u>	<u>Auto Infeed</u>	<u>Automatic Author Disambiguation</u>	<u>Faculty Included</u>	<u>Integration w/ NU Enterprise Systems</u>	<u>Adopters</u>
Collexis	www.collexis.com	Y, with new components being added continuously	N	PubMed, NIH RePorter, Scopus; NSF, DoD, ClinicalTrials.gov, VA, SciVa Funding, and more not yet public feeds all currently being indexed; Free text can be imported as well	Y	Y	Any faculty can be included (would initially be optimized for biomedical faculty)	Possible, institution has access to Web Services to integrate data feeds into internal databases; Web Services can be consumed as directed by institution.	University of MI, UIC, Johns Hopkins University
VIVO (Cornell, U of FL)	vivoweb.org and http://projectreporter.nih.gov/project_info_description.cfm?aid=7875387&icde=2340999	N, development still underway; ~ 12 initial implementations	Y	PubMed, NIH RePORTER, PeopleSoft, internal HR & admin dBs, Scopus (with institutional license) , Web of Knowledge (being developed); Emphasis on verified data sources	Mostly auto feed, some manual entry	Likely to be developed in conjunction with Collexis, not yet developed	All	Possible, dependent on institution integrating ontology with internal data feeds	Consortium members will be adopting when ready (Cornell, Weill Cornell Medical, U of FL, Wash U, Indiana U, Scripps Res Instit, Ponce Medical School-PR); U of Melbourne (recv'd support from Australian gov't to establish VIVO as nat'l system); Chinese Academy of Sciences
Profiles (Harvard)	https://connects.catalyst.harvard.edu/Profiles/About.aspx	Y	Y, Code will be open to public Summer, 2010	Harvard HR systems, PubMed, NIH RePORTER, NSF grant info	Y	Y	All	Possible	Harvard, UCSF (only one module)

<u>Research Networking Tool</u>	<u>National/Consortium System</u>	<u>Interoperability w/ external systems</u>	<u>Active/Passive Networking</u>	<u>Advantages</u>	<u>Disadvantages</u>
Collexis	New "community functionality" across institutions with Collexis implementations. Collexis can offer hosted or data-driven connections with VIVO and Harvard Profiles to autopopulate both systems. Search functionality will access all Collexis clients as well as VIVO system dynamically.	Data sources: Scopus, PubMed, NIH RePORTER, and others; Systems: dynamic connection available with VIVO, can populate Harvard Profiles	Active and Passive	<p>Commercial, well organized, suite of social-networking and expertise-management systems; New Metrics Module being developed, incorporates data visualization tools to compare research performance over time. Demonstrated working implementations with 1.5 years of product evolution completed. Immediate implementation available with final product, connection to VIVO network can be provided at much less risk and lower cost for same result. Service based implementation - no internal risk or management required. More immediate ROI with less risk. Demonstrated incorporation of CV, publications, grants, patents and anything else as yet requested by customers. Commercial, well organized, suite of social-networking and expertise-management systems; Metrics Module being developed in current fiscal year, incorporates data visualization tools to compare research performance over time, dynamic social network visualizations created, utilizes tools for dynamic semantic analysis. Similar to Elsevier SciVal but much less expensive. Connects to BioMedExperts for a pre-populated network of all PubMed authors. Less expensive to the institution than VIVO or Harvard Profiles, with less risk and faster implementation. Financial investment instead of personnel investment.</p> <p>All of our clients have access to dynamic data exports to do whatever they would like with our data, and all requests of features to integrate have been delivered. Feeds both directions (to and from customer) are available to augment and use data dynamically. Less costly than VIVO or Profiles with more immediate ROI and less risk. Can devote internal efforts to integration and population of FASIS and other internal systems rather than launching a system.</p> <p>Currently utilize MeSH for Biomedical implementations, utilize a dynamic ontology for non-life sciences implementations.</p>	Commercial, requires ongoing license for maximum continued benefit
VIVO (Cornell, U of FL)	Y, receiv'd \$12.2M NIH ARRA U24 award in 2009 to fully develop software and create national system of federated research expertise directories/research networking systems; Other semantic web-compliant software platforms can be integrated into the consortium	In discussion with Collexis, Elsevier/Scopus, Thomson/Web of Knowledge, Digital Vita (U of Pitt); Katy Borner re: visualization; Also in discussion with NCRU U24 Resource awardee at Harvard	Passive, moving toward Active	Open source, semantic-based, adopted by a consortium of institutions funded by the NIH, strong platform, open architecture, no faculty input required; Entered into formal agreement with Collexis to connect systems. Potential to create both public and private profiles.	Not yet fully implemented at any institution in full, final version. First ontology developed in February 2010, no demonstrated connections with existing systems. Visualization components not yet built and integrated.
Profiles (Harvard)	N, developing consortium capability	Developing capabilities; Support for commercial sources of publication data	Active and Passive	Open source, parts are very well scripted; Every profile is part of 2 networks: Passive Networks are all the networks a person is part of based on automated analysis of their profile content, and Active Networks are networks that users create themselves while going through the site and indicating who their collaborators are. Every night, automated processes calculate social network analysis metrics (degree, closeness, betweenness, etc.) for the various networks, don't have to export data to software like Pajek to generate SNA reports. Can create visualizations, team building tools, and other modules that work in real-time. Partnered with a commercial company (Recombinant Data Corp, http://recombddata.com) to help with installation, data feeds, documentation, and ongoing technical support and to provide benefits of rapid deployment from the open source platform	Not semantic-based, not easy to find individuals; Likely need to buy service contract with Recombinant. Significant institutional support needed to run system (as demonstrated by UCSF implementation and Harvard infrastructure). Questionable information on manual input, though can be fed data if it exists in an external system.

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AIMS-Academic Information Management System (DiscoveryLogic/Thomson Reuters)	http://www.discoverylogic.com/	N; demo currently available; v1.0 launch in Feb 2011	N	(1) AIMS draws from ScienceWire, which includes Thomson Reuters Web of Science publications and conference proceedings, US PTO patents, and US Federal Grants. (2) AIMS ingests university data including HR data, registrar course data, and grants and contract data. (3) Data sources will be expanded in 2011 to include international funding sources. (4) Supplementary data entry supported by ScienceWire search and linkage with university system; (5) EndNote	Y	Y	All faculty	Available in 2011, subscribing institutions will have access to Web Services to pull data from AIMS.	None thus far; Launch date set for 02/2011
Expertise@Maryland (UMD)	http://www.northwestern.edu/nico/eve/nts/pdf/2009/Golbeck-NICO-SONIC.pdf	N	Y, will be	Central university faculty dB	Y	Y	All	May be possible	University of MD College Park
CI-KNOW (Northwestern)	http://iknow.northwestern.edu/	Y	Y	Network Surveys, automate upload for any kind of network data including archival, scientometric, webometric and computer log data. Also import data in GraphML, RDF, and DL (used by UCINET)	Y, for defined data	N (can be done in conjunction with software developed at Northwestern)	Defined using Web of science ID or on an ad hoc basis	Not currently	NCI, NSF
LatticeGrid (Northwestern)	http://wiki.bioinformatics.northwestern.edu/index.php/LatticeGrid	Y	Y	FSM Faculty dB, PubMed, InfoEd, NU eIRB	Y	N (can be done manually on a recurring basis by faculty member)	FSM only; Developed for biomedical research organizations; When there was consideration of expanding to include other schools, there was resistance experienced	N	Northwestern Feinberg School of Med & Cancer Ctr, UCSF Cancer Ctr, Fox Chase Cancer Ctr
McCormick Collaboration Visualization Tool (Northwestern)	http://collaboration.mccormick.northwestern.edu/	Y	N	Thomson Reuters Web of Science	Y	Y	All NU	No	McCormick School of Engineering & Applied Sciences at Northwestern
Faculty Research Information Profile (FRIP, U of Pitt)	Defunct, work on this system ceased; Moved on to developing Digital CV								

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AIMS-Academic Information Management System (DiscoveryLogic/Thomson Reuters)	Data are hosted centrally by Thomson Reuters in secure facility. Common data model, based on the tested OSU:pro system, allows for search across institutions. Integration with Researcher ID unique identifier system allows for profile movement between subscribers. System design supports a group of institutions purchasing together, being able to view each other's data, and running reports across all participating institutions.	Interacts with ScienceWire, which includes Web of Science publications and conference proceedings, US Patent and Trademark Office patents and patent applications, and US Federal Agency Grants (NIH, NSF, DOE, DOD). Sciencewire being expanded to include additional DBs. AIMS interacts with university systems including personnel/HR, courses, and grants and contracts information. Users may also upload data from Researcher ID and EndNote. Can support data upload from other systems as prioritized by user base.	Active and Passive	AIMS is a profile and analysis system. In addition to data collection and storage, AIMS provides an administrative component with customizable analytics for decision support, including citation metrics, baselines, and inter and intra-university comparisons. The system is designed as a cross-campus enterprise solution, with a data model for information on service, teaching, and research activities. AIMS supports many reporting needs, including CV production, annual review, accreditation, and conflict of interest. Data may be coded as private or public. Security model allows for individual users, proxies, group owners, and system administration. Includes data from multiple sources, scalable to additional sources, and provides automated update system for notifying faculty of new matching publications. Will import data from EndNote Libraries	Commercial, requires annual license.
Expertise@Maryland (UMD)	N	N	Passive, building Active	Will be improving performance to recommend collaborations based on co-authorship, citations, and other links in the social network; Developing recommendation algorithms involve looking to papers that faculty members are already writing to characterize their expertise: "Obtain those papers from many sources, rip out the words, and then use those words as the basis for modeling expertise."	Currently only utilizes faculty publications in an information retrieval system to identify "experts." (UMD is currently a Collexis customer)
CI-KNOW (Northwestern)	N	Possible	Active and Passive	Good at identifying potential individual or team of investigators; can "mash" different types of network data such as from survey, scientometric, university records. A network recommendation system; Effective expertise discovery and network recommendation algorithms and interfaces based on socio-technical principles. Built-in Interactive visualization tools to illustrate multiple attributes and relations among investigators; The tool can also work as a standalone application to visualize network data files in standard formats such as DL and GraphML.	Not a profile system in and of itself, requires connection with a profile system for data input. Current system can collect data via integrated online survey function, or direct importation. A minimal set of profiling functionalities are available, and can be further extended in the future.
LatticeGrid (Northwestern)	N	Not currently; May be developed	Passive	Good for identifying coauthors and existing patterns of collaboration	Relies almost exclusively on publication data from a single source (PubMed); Limited network analysis tools; Only useful for biomedical/life sciences profiles
McCormick Collaboration Visualization Tool (Northwestern)	N	Only Thomson Web of Science	Passive	Good for identifying coauthors and existing patterns of collaboration; Beautiful visualization of existing connections	Relies exclusively on publication data from a single source; Limited network analysis tools
Faculty Research Information Profile (FRIP, U of Pitt)			Passive		Determined not to be a successful tool due to lack of use and lack of intergartyion with faculty members' work flow

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Digital Vita (U Pitt)	http://researchgateway.ctsi.pitt.edu/digitalvita/ ; http://www.dental.pitt.edu/informatics/orc/Entire-video-600x450-WM.wmv	Y	Y, "but it would be time-consuming to understand and implement at another institution"	PubMed, some from HR system, direct input from investigators; System authenticates users through an application developed by the IT group that supports the Senior Vice Chancellor of Health Sciences; that system accesses the HR system for data about employees' rank and status (active or not); Working with the grants office to get a regular report of data from their proposal database	Some	N (can be done manually on a recurring basis by faculty member)	All	N	University of Pittsburgh, U of Pittsburgh Medical Center
Google search on northwestern.edu	Google search from NU's home page or Google search limited to only northwestern.edu	Y	Y	Northwestern Directory, LatticeGrid, as well as news releases and all other NW websites	Y	N	Anyone with information on NU's web site	Y	Anyone can access
Loki (U of IA)	www.icts.uiowa.edu/Loki	Y	Y	Local Medline, PubMed, Local NSF award dB, local NIH RePORTER dB, Campus Directory Services	Partial	Authentication of investigators using the campus directory services	All	Possible	U of IA
Research Accelerator (Yale)	http://ycci.researchaccelerator.org/ ; http://www.articleant.com/p/re/65877-new-online-tool-designed-to-promote-collaborations-among-yale-re.html	Y	?	Information entered by individual members	N	N	Any member of the Yale research enterprise	N	Yale
Epernicus.com and Epernicus Solutions	http://www.epernicus.com/	Y	N	Data entered by applicant	N	Manual, must be done by faculty member	Anyone who enters a profile	Possible (for Epernicus Solutions)	Harvard, MIT, Indiana U, Stanford, University of California Berkeley (but not exclusively)
COS Expertise and COS Profiles (RefWorks)	http://www.cos.com/	Y	N	Faculty-entered information about research	N	NA	Anyone who enters a profile	N	Many around the country; However, main use is as a funding identification tool and NOT a profile dB
COS Scholar Universe (RefWorks)	http://www.refworks-cos.com/GlobalTemplates/RefworksCos/coschuniv.shtml	Y	N	Manually harvested, publicly-available university organization and faculty member/researcher information, user-generated data, PubMed, Agricola, ERIC, ProQuest proprietary citation databases, indexed faculty/researcher webpages.	Y for all citation data from sources listed in DataSource. Profiles editorially created, but user-generated profiles also included	Y	Now at ~2.5 million (this is a moving target)	N	More than 300+ institutions worldwide, including Ohio State University and the SUNY system
INDURE - Indiana Database of University Research Expertise	www.indure.org	Y	N	Faculty-entered information about research, faculty home pages	Partial?	NA	All faculty at 4 IN institutions	N	Ball State U, Indiana U, Purdue, U of Notre Dame
Collaborative Partnership/Profile System	http://www.uta.edu/research/collaborate/index.php and http://ati.uta.edu/	Y	Y	Universities and institutions' own databases and websites ("think Orbitz for research profiles")	Y (needs to be set up by each university/institution)	N	Dictated by source from the institution	Y	Participants: The University of Texas at Arlington; The University of Texas - Pan American; The University of North Texas - Health Science Center; The University of Texas at El Paso; The University of Texas at San Antonio; The University of Texas at Tyler; University of Texas Health Science Center - San Antonio; University of North Texas ; University of Texas - UT Health Center;

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Digital Vita (U Pitt)	N	Only PubMed; Used to pull from NIH CRISP, no interface for RePORTER now though	NA	Designed by HCI grad students, addresses problems of researchers not updating their own info and being hesitant to 'cold-call' fellow researchers; Flexible tools for creating different types of CVs/biosketches from the data faculty enter; Now being created as an application of VIVO	CV and NIH Biosketch system only. System relies HEAVILY on faculty input of own data.
Google search on northwestern.edu	N	N	NA	Already available	Have to sort through a <u>lot</u> of extraneous information to find what you want. Need to have some idea of organizational structure when searching. One search does not link to additional information
Loki (U of IA)	N	Y	Passive		Built around the concept of letting faculty create their own profile
Research Accelerator (Yale)	N	N	Passive	The RA uses a novel system called "data driven collaboration" to quickly and easily identify potential research partners. "Other software programs allow researchers to easily find published papers or biographical information, but we wanted to create the first-ever platform that identifies potential collaborators on the basis of a mutual interest in the substance of the data or reagents, not on purely social factors."	"For the site to be valuable to members of the Yale community, scientists need to use it to log on and post data and resources. "
Epernicus.com and Epernicus Solutions	N	N	Passive	Good profiles for researchers	Epernicus.com requires faculty to manually enter data; Epernicus Solutions is for internal institution use
COS Expertise and COS Profiles (RefWorks)	N	N	Passive	None; Past usage at NU has been incredibly weak (same around the country)	All data manually entered by faculty members themselves
COS Scholar Universe (RefWorks)	Y, in so much that as there are ~2.5M faculty profiles already in the system	Y, at some institutions	Passive	Editorialized profiles. With more than 2 million profiles, it helps researchers and academics connect with colleagues with shared interests while expanding their networks to include previously unknown people working in related fields or in other areas of the world. Profiles provide a snapshot of a scholar's professional life, including affiliations, education, research interests, publications, awards and contact information to help make that important connection. COS Scholar Universe is also part search engine, searching the internet for the newest and most updated information available about relevant scholars.	Users can create and edit profiles without a license, however we do require that they create an account at no charge to validate that the person wanting to edit the profile is indeed the person to whom the profile belongs.
INDURE - Indiana Database of University Research Expertise	N	N	Passive	None	Seems to be intended for Indiana institutions only
Collaborative Partnership/Profile System	Only in TX right now	In discussion with Collexis	Passive	Would use existing databases and websites at Northwestern	UI differs per organization, not very elegant or easy to read

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Stanford Community Academic Profiles-CAP	http://med.stanford.edu/profiles/	Y	Unclear	CAP automatically generates a basic profile for any person with a faculty appointment in the School of Medicine (including secondary, joint, courtesy, and active emeritus appointments), researchers with PI status, and postdoctoral scholars. Faculty information is provided by PeopleSoft	Partial	Doesn't appear so	Active Stanford physicians, School of Medicine faculty, principle investigators and postdoctoral scholars in the medical school	N	Stanford University
GENIUS (InfoEd)	http://www1.infoed.org/	Y	N	InfoEd proprietary grant funding dBS	Only of InfoEd dB data, faculty profile information must be entered manually	N	Any faculty member who creates a profile on the system	Developing integrarrtion with HRIS and then with FASIS	NU and many other Big Ten/CIC Institutions
MizzouLinks	None yet	N	Y	Information collected from interviews and imported from a few institutional systems	N	N	A pilot group from two interdisciplinary centers to begin	Maybe	University of Missouri
LinkedIn	www.linkedin.com	Y	N	Information entered manually by faculty member (LinkedIn is not restricted to only faculty)	N	N	An faculty members who creates a LinkedIn profile	N	Millions of people globally
Yaffle (Memorial University, Newfoundland, Canada)	http://www.yaffle.ca/ ; Jennifer Adams Warburton jenniferaw@mun.ca	Y	Y	Memorial University systems	Y	?	All University Faculty	N	Memorial University
SciVal Spotlight (Elsevier)	http://info.spotlight.scival.com/	Y	N	Elsevier Scopus	Y	Y	All published	N	
InCites (Thomson Reuters)	http://researchanalytics.thomsonreuters.com/incites/	Y	N	Thomson Reuters Web of Knowledge	Y	Y	All published	N	

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Stanford Community Academic Profiles-CAP	N	N	Passive	Shows current clinical trials in addition to publications and research interests; Has mentoring and "clinical profile" modules	Searches not very powerful (e.g., results are alphabetical, not weighted by relevance)
GENIUS (InfoEd)	N	Only other InfoEd modules (SMARTS: Service that automatically sends notices of funding opportunities via email. You provide keywords that describe your research interests, and SMARTS matches those keywords with present funding programs; SPIN: Enables subscribers to directly search for all sponsored programs - past and present, contained within the InfoEd database)	Passive	A module included in the InforEd grant management system; Provides a method to search for other researchers contained within the InfoEd database at NU. It also allows you to be found by other researchers seeking collaboration.	Faculty information must be entered and updated manually
MizzouLinks	N	N	Passive	Network analysis features will be strong	Not a profile system, rather a network analysis system
LinkedIn	N	N	Passive	Includes more than just faculty	Requires connections like FaceBook to get information about someone else; All information must be entered manually into the profile; Not set up as a scholarly tool, and thus does not capture information about scholarly activities, e.g., publications
Yaffle (Memorial University, Newfoundland, Canada)	Not yet, The Canadian research funding councils as well as knowledge mobilization networks across the country (governments and universities) are working with us as we develop a model to share what we've built	N	Passive	Our purpose is to connect the research done at Memorial University with regions, municipalities, governments, NGOs, and individuals in Newfoundland and Labrador. Yaffle is also the conduit into the university for those groups; they can request research ideas or projects through Yaffle. Some projects are picked up directly through Yaffle by faculty but most often, we help the process along by engaging our knowledge brokering team to "walk" the opportunity to researchers and faculties that might have an interest in that request. While we don't pretend to have the most unique piece of technology (PHP front end/MySQL back end/open source search engine – with some changes to the code) what is unique is our implementation of such a tool and how we succeeded in gaining buy in from our most senior university executives, funders, community and faculty alike. Yaffle is simply a tool in a much larger fabric of successful knowledge brokering and mobilization.	Not available for adoption elsewhere
SciVal Spotlight (Elsevier)	N	N	Passive	Commercial, good for identifying institutional 'research excellence'	A science map system/research analytics tool, not a profile system, costly, limited to only Scopus publication data
InCites (Thomson Reuters)	N	N	Passive	Customized, citation-based research evaluation tool on the Web that enables you to analyze institutional productivity and benchmark your output against peers worldwide	A research analytics tool and not a profiling system; Limited to only Web of Knowledge data

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Faculty Scholarly Productivity Index (Academic Analytics, LLC)	http://www.academicanalytics.com/	Y	N	FSP Database (2007-2008)	Y	?	All published/federally funded	?	?
Digital Measures "Activity Insight"	http://www.digitalmeasures.com/ActivityInsight/	Y	N	Info collected by: (1) integrating Digital Measures into faculty reporting system(s); (2) importing existing info from systems like Banner, Datatel, PeopleSoft, or SIS+.	Y	?	Dictated by source from the institution	?	UCLA Marshall School of Business others?

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Faculty Scholarly Productivity Index (Academic Analytics, LLC)	N	?	NA	Based on quantitative analysis of individual PhD programs. Faculty Scholarly Productivity DB provides "a quantitative method for ranking doctoral programs at Research Universities... The FSP Index measures the scholarly productivity of faculty using their book and journal publications, journal article citations, federally-funded research grants, and honorific awards." DB includes all nation's PhD-granting programs. Facilitates comparisons between and among PhD programs. are combined to evaluate scholarly productivity of each university as a whole	Information is not up to date. Current FSP DB index subscriptions cover AY 2007-2008.
Digital Measures "Activity Insight"	N	Y	NA	Custom reports generated for a variety of stakeholders (internal reviews and agency applications, alike), database-drive website creation. Data can be extracted from DM as XML or tab-delimited DB if DM contract is terminated.	Requires faculty input. Management of automatically-input data. Profiles maintained by faculty or proxy