

# Supporting Information

Sanberg et al. 10.1073/pnas.1404094111

**Table S1. Language used to incorporate entrepreneurial activities in tenure and promotion documents at universities**

Institution	Date founded	Public/private	Tenure and promotion language
Auburn University	1856	Public	"Evaluation of Research. . .Other indicators of research productivity which can supplement one's record include external grants and the creation of intellectual property, copyrights, and patents" (1).
Carnegie Institute of Technology at Carnegie Mellon	1900	Private	"Research: Measures of excellence in this area include the quality, volume, and impact of publications, including papers, monographs, books and research reports; evaluation of research by others; patents; prizes and awards for research; solicited and invited lectures; the amount of financial support; and the contribution of the candidate's work towards the needs of society" (2).
Clemson University	1889	Public	"2.) Scholarship (refereed scholarly work is weighed much more heavily), as indicated by the following possible supporting evidence: 2.6.) Patents awarded" (3).
East Carolina University	1907	Public	"Research/Creative Activity: . . .Patents" (4).
Florida Atlantic University	1961	Public	"Evidence of achievement in the appropriate discipline(s) . . .where appropriate, patents and research grants" (5).
Florida Institute of Technology	1958	Private	"Research/Scholarly Activities: . . .List and describe briefly any disclosures of inventions or resulting patents" (6).
Florida International University	1965	Public	"Research/Scholarship/Creative Work: e. Patent Disclosures/Applications/ Awards: Patent disclosures, applications, and provisional and final patent awards should be listed. If there are co-investigators on the disclosure, application or award, these should be indicated" (7).
Kent State University	1910	Public	"Evidence of the scholarship of discovery, integration, application and teaching, as well as university citizenship. . .In addition, candidates are expected to provide documented evidence which may include. . . evidence of outstanding achievement, such as awards, patents, and copyrights" (8).
Lehigh University	1865	Private	"Publications and Creative Activities: Creative Activities: . . . Original designs, plan, inventions, and patents" (9).
Lincoln University	1866	Public	"Scholarly Research/ Creative Activity and Professional Achievement: . . . Documentation of externally funded grants and inventions and patents. . ." (10).
New Jersey Institute of Technology	1885	Public	"A complete curriculum vitae documenting publications and patent applications since appointment or last promotion. . .Applications for, and granting of patents and copyrights are recognized as a measure of importance and/or peer evaluation of the work in the field" (11).
North Dakota State University	1890	Public	"[T]he development and public release of new products or varieties, research techniques, copyrights, and patents or other intellectual property. . ." (12).
Northeastern University	1854	Private	". . .the receipt of patents represents professional recognition of research activities. In some fields technical, procedural, or practical innovations made clinically or professionally are evidence of productive scholarship" (13).
The Ohio State University	1870	Public	"2. List of creative works pertinent to the candidate's professional focus: . . .Inventions and patents, including disclosures, options, and commercial licenses" (14).
Oregon State University	1868	Public	"Authorship of a patent in the faculty member's field is considered as evidence of creative scholarship" (15).
The Pennsylvania State University	1855	Public	"Other evidence of research or creative accomplishments as appropriate (patents, new product development, new art forms, citation index analysis, etc.)" (16).
Purdue University (Consumer Sciences and Retailing)	1869	Public	"Benchmarking Excellence: . . .Patents and license agreements resulting from research done while at Purdue" (17).
South Dakota State University	1881	Public	"Examples (non-exhaustive) of publications or activities of research, scholarship, and creative activity: . . .patents," (18).
Stevens Institute of Technology	1870	Private	"Scholarly activities: . . .patents" (19).

Table S1. Cont.

Institution	Date founded	Public/private	Tenure and promotion language
Texas A&M University	1876	Public	"Patents or commercialization of research, where applicable" (20). . . Patents are listed under "Other Research, Scholarship, or Creativity Accomplishments," in the faculty summary table (21).
Texas Tech University	1923	Public	"Evidence of research and creative activity includes print or electronic publications, non-print presentations, funded grant applications and reports, patents and other intellectual property, curatorships, and artistic productions and performances. Textbooks and innovative instructional materials having significant value beyond this campus may be considered contributions to research and creative activity" (22).
The University of Alabama at Birmingham	1969	Public	"Although scholarly work takes many forms, including design, basic and applied research, and other creative activities, a faculty member's effectiveness can be demonstrated by such achievements as . . . patents, and the like. The quality of the individual's scholarly approach, capacity for independent thought, originality, and products of scholarship must be addressed" (23).
University of Arkansas at Little Rock	1927	Public	"The Scholarship of Integration may result in a traditional academic product such as an article, book or presentation. It also may take the form of a product or patent. As in other areas, appropriate forms of external review must be used to determine the merit of such products" (24).
University of Arizona	1885	Public	". . . promotion and tenure reviews, as detailed in the criteria of individual departments and colleges, will recognize original research contributions in peer-reviewed publications as well as integrative and applied forms of scholarship that involve cross-cutting collaborations with business and community partners, including translational research, commercialization activities, and patents" (25).
University of Colorado Denver	1912	Public	"Research and/or Other Scholarly Activities: . . . Patent or patent applications" (26).
University of Houston	1927	Public	"Generation of intellectual property: List any patents issued or pending including patent number, date of filing, and status (provisional, non-provisional, issued)" (27).
University of Illinois at Urbana-Champaign	1867	Public	"Publications and Creative Works: . . . H. Patents " (28).
University of Maryland System	1856	Public	"Original Designs, Plans, Inventions, Software and/or Patents" (29).
University of Michigan School of Music	1817	Public	"Full recognition, both in evaluating tenure and promotion cases, will be given for a broad range of entrepreneurial, outreach and creative activities in which faculty engage. These activities may enhance any of the criteria on which faculty are measured – teaching, research and service. . . Examples are . . . • creating a start-up company that enhances the broader scholarly, public service, or health care missions of the University, . . . • creating new or enhanced practices, products or services, • working with the Office of Technology Transfer to patent or license an invention, • encouraging and instructing students in entrepreneurial and public service activities, • developing collaborative approaches to solving complex world problems" (30).
University of Minnesota	1851	Public	"[I]nclude significant publications and, as appropriate, the development and dissemination by other means of new knowledge, technology, or scientific procedures resulting in innovative products, practices, and ideas of significance and value to society" (31).
University of Nebraska at Omaha (Medical Center)	1869	Public	"Evidence of Scholarly Activity: . . . A complete listing of patents, patents pending, and any licensed products are also required in this evaluation. . . . Scholarly activity should be accepted in its broadest sense, and should not be viewed solely as basic or clinical research as acknowledged traditionally. . . . recognize as scholarly activity the development of innovative teaching methods, the synthesis of new concepts based on data already published by the candidates or others, technology transfer successes, software design, website design, or other activities related to information sciences, etc." (32).
University of North Carolina – Greensboro	1891	Public	"Research and creative activities may include, but are not limited to, the following: . . . Developing innovative solutions that address social, economic, or environmental challenges (e.g., inventions, patents, products, services, clinical procedures and practices). . . . Granted patents, Patent applications, Disclosures of innovation, Entrepreneurship and related activities. . ." (33).

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Institution	Date founded	Public/private	Tenure and promotion language
University of Saskatchewan	1907	Public	"Evaluation of research, scholarly and/or artistic work for tenure and promotion at all ranks will address the quality and significance of the work. Evidence will include the peer-reviewed publications and presentations referenced above, but may also include other works (e.g., artistic works, performances, research related patents, copyrighted software and audio-visual materials)" (34).
University of Southern California	1880	Private	"While patents cannot replace peer-reviewed publications in a candidate's dossier, they are a sign of impact and productivity and will be considered accordingly" (35).
University of South Florida	1956	Public	"Other Creative Activities. . . Patents and Licensing. . . Other unique or entrepreneurial activities of significance" (36).
University of Wisconsin Madison	1848	Public	"[E]vidence of research performance and of a candidate's standing in a discipline includes . . . (9) patents or evidence of intellectual property. The case must be made as to the quality and level of contribution of the candidate's present work" (37).
Utah State University	1888	Public	"Research or creative endeavors encompass a wide variety of scholarly activities that lead to the advancement of knowledge and/or to original contributions in the arts and humanities. Documentation supporting such activities must include peer recognition of their value and may include, but is not restricted to: . . . intellectual contributions represented by patents, inventions and other intellectual property" (38).
Virginia Polytechnic Institute and State University (Virginia Tech)	1872	Public	"Economic contributions and entrepreneurship: 1. Start-up businesses (including competitive grants and contracts such as SBIR awards and other notable business achievements), 2. Commercialization of discoveries, 3. Other. . . Intellectual properties: 1. Software, 2. Patents, 3. Disclosures (pre-patent)" (39).
Washington University at St. Louis (Sam Fox School of Design & Visual Arts)	1853	Private	"Other kinds of recognition for research may include patents, production or product development contracts, and demonstration of influence through citations, papers, awards, graduate student support, and the ability of the research to attract further funding" (40).

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