

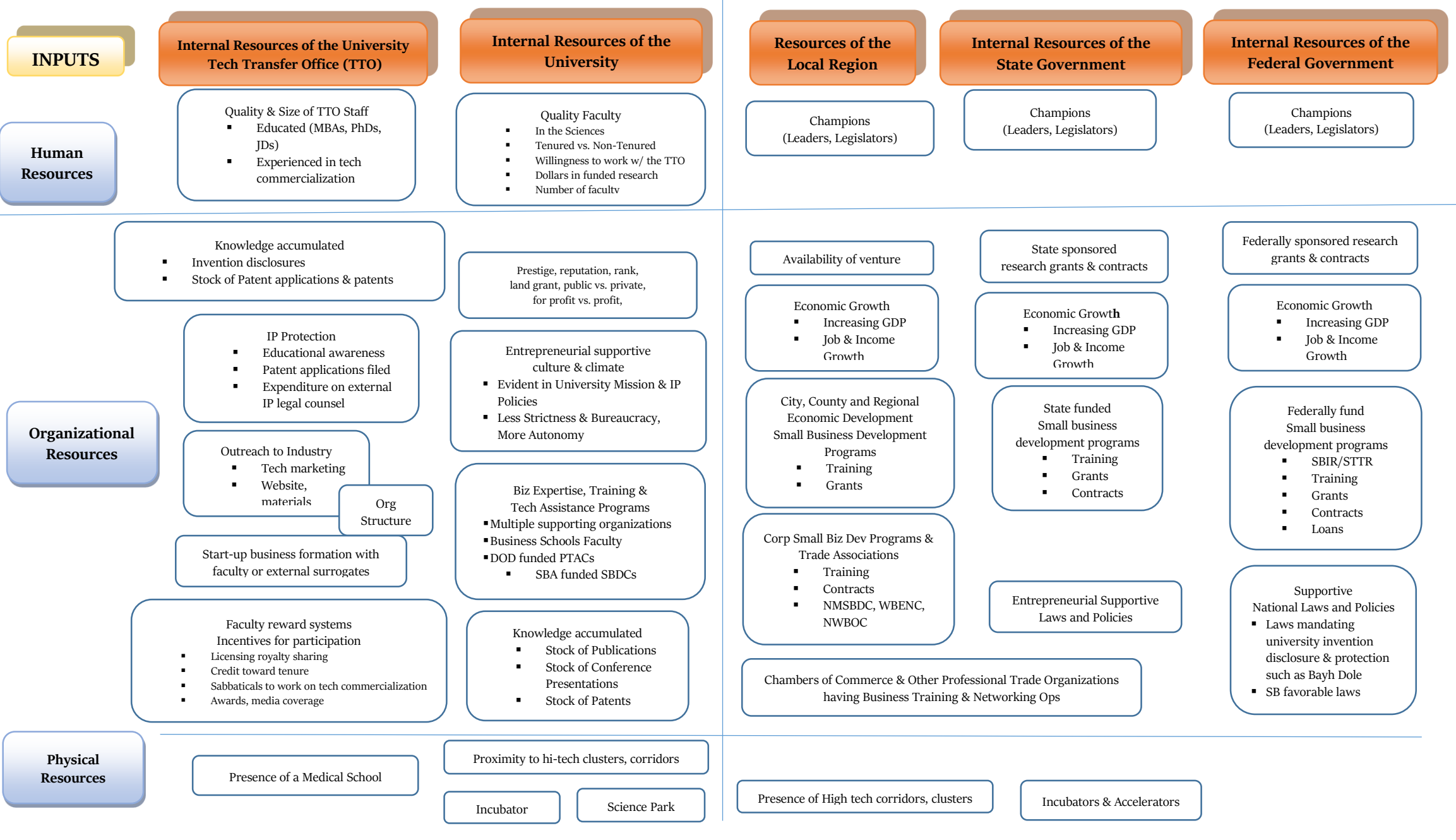


Figure 22. University Tech Transfer Supply Chain Network INPUTS

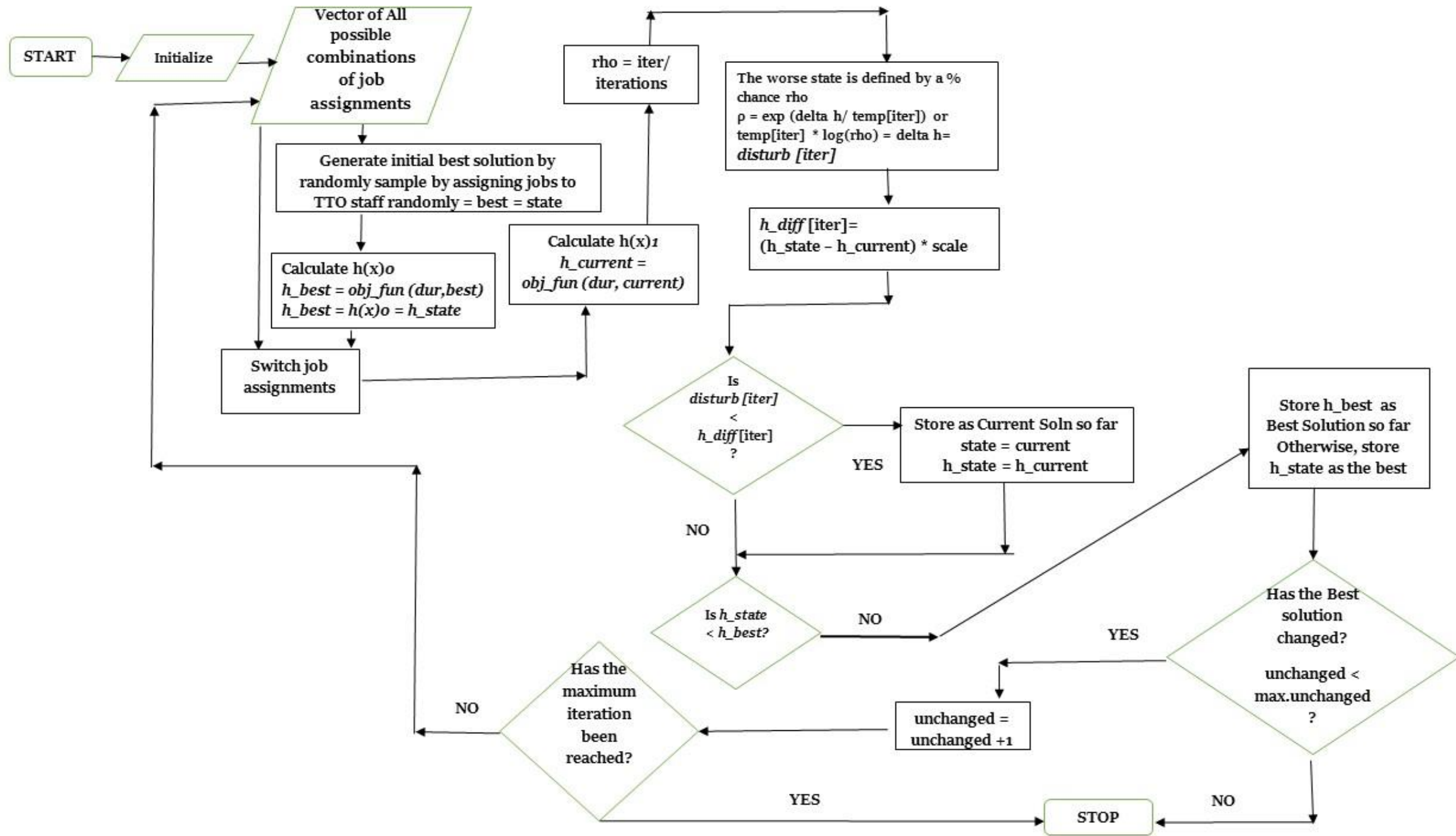


Figure 30. Flow Chart University Tech Transfer Job Scheduling Tool

TABLE 14. Non-HBCUs NCR Faculty Quality Data by Program

MEDIAN VALUES				
Univ North TX Health	biomed science	1.58	1.79	89
	pharma	2.31	2.34	91
	immunology	1	2.15	86
	biochem	0.37	1.41	67
	Physiology & Pharmacology	1.4	3.85	100
	Neuroscience	0.87	3.57	100
Wake Forest	Neurobiology & Anatomy	1.46	3.46	87
	Microbiology & Immunology	0.98	4.38	100
	Molecular & Cellular Pathobiology	1.46	2.66	100
	Molecular Genetics	1.37	2.91	100
	Cancer Biology	1.2	3.59	82
	Biology	1.03	1.98	59
UAL Huntsville	Biochemistry and Molecular Biology	2.15	3.07	97
	Computer Science	0.59	N/D	34
	Mechanical Engineering	0.5	0.71	78
	Electrical Engineering	0.55	0.63	100
	Mechanical Engineering	1.54	1.09	60
	Electrical & Computer Engineering	1.37	1.73	76
Rice	chem & biomolecular engineering	1.88	2.28	89
	bioeng	1.89	4.78	93
	biochem & cell bio	2.13	3.63	0
	physiology	1.81	3.77	90
	pharma	1.34	1.6	100
	neuroscience	1.34	5.07	77
Baylor	virology & micro biology	2.5	3.85	100
	immunology	2.6	3.53	95
	molecular & human genetics	2.85	5.48	86
	molecular & cell biology	2.83	5.04	96
	dev biology	2.49	6.52	82
	cell biology	2.44	3.96	100
	cardiology	2.68	5.35	88
	bio	3.1	4.19	100
	biochem	2.92	5.49	100
		No. Publications per allocated faculty member	Citations per publication	% Faculty with research grants

TABLE 14. Continued. Non-HBCUs NCR Faculty Quality Data by Program

MEDIAN VALUES		0.28	3	23.2	47.4
Univ North TX Health	biomed science	0	5.3	15.3	0.0
	pharma	0	0	9.1	0.0
	immunology	0	37.5	25	0.0
	biochem	0.43	6.5	20	0.0
	Physiology & Pharmacology	0.01	0	25	67.6
Wake Forest	Neuroscience	0.04	2.9	25.9	100.0
	Neurobiology & Anatomy	0	10	27.3	38.9
	Microbiology & Immunology	0.16	0	20	68.8
	Molecular & Cellular Pathobiology	0.25	0	23.1	51.9
	Molecular Genetics	0.11	3.1	26.7	100.0
	Cancer Biology	0	0	25	66.7
	Biology	0.28	5	30	16.7
	Biochemistry and Molecular Biology	0.34	0	26.3	57.8
	Computer Science	0	0	23.1	48.0
	Mechanical Engineering	0.28	0	5	4.8
UAL Huntsville	Electrical Engineering	0	0	13.3	11.8
	Mechanical Engineering	2.88	8.3	16.7	40.0
	Electrical & Computer Engineering	0.16	0	9.5	12.5
	chem & biomolecular engineering	1.07	6.3	18.8	64.4
Rice	bioeng	0.51	5.9	28.2	48.7
	biochem & cell bio	0.6	N/D	N/D	0.0
	physiology	0.38	0	40.9	42.1
	pharma	0.15	0	33.3	60.0
Baylor	neuroscience	1.34	0	20.7	39.6
	virology & micro biology	1.95	9.5	39.1	48.9
	immunology	0.53	8.3	32.1	42.9
	molecular & human genetics	3.67	4.5	23.1	43.5
	molecular & cell biology	1.5	4	28.3	41.2
	dev biology	1.66	3.8	23.3	63.6
	cell biology	2.2	2.3	39.2	47.4
	cardiology	0.2	4.8	18.5	48.1
	bio	2.62	15	12.5	50.0
	biochem	3.36	0	20	63.6

TABLE 14. Continued. Non-HBCUs NCR Faculty Quality Data by Program

MEDIAN VALUES				
Univ North TX Health	biomed science	59	20	88.6
	pharma	11	0	73
	immunology	8	50	50
	biochem	35	9	71
	Physiology & Pharmacology	37	16	49
	Neuroscience	33	18	42
Wake Forest	Neurobiology & Anatomy	18	28	44
	Microbiology & Immunology	32	28	59
	Molecular & Cellular Pathobiology	27	19	63
	Molecular Genetics	40	15	63
	Cancer Biology	36	33	56
	Biology	24	4	88
UAL Huntsville	Biochemistry and Molecular Biology	45	31	60
	Computer Science	25	12	76
	Mechanical Engineering	21	0	67
	Electrical Engineering	17	6	76
Rice	Mechanical Engineering	20	15	70
	Electrical & Computer Engineering	24	17	54
	chem & biomolecular engineering	45	18	76
	bioeng	76	25	66
	biochem & cell bio	23	17	74
	physiology	38	26	61
Baylor	pharma	15	0	100
	neuroscience	48	17	73
	virology & micro biology	45	13	82
	immunology	49	18	67
	molecular & human genetics	92	23	73
	molecular & cell biology	102	19	73
	dev biology	55	24	74
	cell biology	97	13	69
	cardiology	52	6	76
	bio	48	10	81
	biochem	55	16	82

TABLE 17. Continued. Non-HBCU Technology Transfer Program Features Correlation Matrix

	<i>Lic FTEs</i>	<i>Oth FTEs</i>	<i>Tot Res Exp</i>	<i>Fed Res Exp</i>	<i>Ind Res Exp</i>	<i>Tot Lic Opt Exec</i>	<i>Inv Dis</i>	<i>Tot Pat App Filed</i>	<i>St Ups Formed</i>	<i>Gross Licensing Income</i>	<i>Legal Fees</i>	<i>Number of publications per allocated faculty</i>	<i>number of citations per publication</i>	<i>% faculty with research grants</i>	<i>% faculty with honors and awards</i>	<i>% non-Asian minorities</i>	<i>% women</i>	<i>% faculty engaged in inter-disciplinary research</i>	<i>faculty size per program</i>	<i>% assistant professors</i>	<i>% tenured professors</i>
Number of publications per faculty member	0.8195	0.6253	0.7545	0.7038	0.6752	0.8335	0.7803	0.5694	0.3152	0.1247	0.1395	1									
number of citations per publication	0.8805	0.7090	0.8821	0.8761	0.8040	0.9465	0.6255	0.4897	0.7290	0.5776	0.3557	0.8626	1								
% faculty with research grants	0.5168	0.3954	0.6260	0.6641	0.5400	0.6725	0.0927	0.0901	0.5703	0.8436	0.3810	0.3662	0.7732	1							
% faculty with honors and awards	0.7452	0.5484	0.8655	0.8105	0.8269	0.8751	0.6595	0.3762	0.3325	0.0101	0.1019	0.9026	0.7627	0.2588	1						
% non-Asian minorities	0.0387	-0.1181	-0.1303	0.2199	0.2458	0.0060	0.3194	0.1897	0.8190	-0.5713	0.2560	0.5257	0.1213	-0.2932	0.3109	1					
% women	0.8395	0.7215	0.8093	0.8332	0.7450	0.8692	0.5256	0.4750	0.8472	0.7854	0.5251	0.6920	0.9572	0.8934	0.5612	-0.0857	1				
% faculty engaged in inter-disciplinary research	0.9040	0.9632	0.6756	0.7341	0.7268	0.6867	0.7396	0.7907	0.9908	0.7962	0.8237	0.5066	0.7251	0.5787	0.4189	-0.2998	0.8054	1			
faculty size per program	0.7846	0.5847	0.9794	0.9620	0.9205	0.9894	0.4795	0.2622	0.5804	0.4417	0.0765	0.7959	0.9229	0.6941	0.8643	-0.0184	0.8414	0.5920	1		
% assistant professors	0.7468	0.6837	0.4144	0.4249	0.3363	0.5458	0.6914	0.7284	0.9239	0.5546	0.6834	0.6992	0.7716	0.5829	0.3603	0.3497	0.7914	0.6892	0.4687	1	

TABLE 17. Continued. Non-HBCU Technology Transfer Program Features Correlation Matrix

% tenured professors	1
% assistant professors	-0.7014
faculty size per program	-0.0916
% faculty engaged in inter-disciplinary research	0.7180
% women	0.6015
% non-Asian minorities	0.2994
% faculty with honors and awards	0.2304
% faculty with research grants	-0.6011
number of citations per publication	0.3848
Number of publications per allocated faculty	0.0526
Legal Fees	0.9294
Gross Licensing Income	0.8638
St Ups Formed	0.6271
Tot Pat App Filed	0.5492
Inv Dis	0.3089
Tot Lic Opt Exec	0.1708
Ind Res Exp	-0.1156
Fed Res Exp	0.1910
Tot Res Exp	-0.1065
Oth FTEs	-0.5719
Lic FTEs	0.4495
	% tenured professors