

S.No.	Deficiency area	No. of Scientists
1	Genomics & functional genomics	204
2	Bioinformatics	170
3	Molecular breeding techniques	106
4	Statistical data analysis, Experimental Design & related aspects	103
5	Research management	86
6	Research management	81
7	Impact assessment	78
8	Proteomics	74
9	Leadership development and managerial skills	92
10	Nanotechnology	61
11	Conservation Agriculture	52
12	Marker assisted selection	44
13	Simulation modelling	42
14	Pesticide residue analysis	39
15	Phenomics	38
16	Metabolomics	69
17	Instrumentation techniques	33
18	Metagenomics	33
19	Bio-control agents	33
20	IPR Issues	32
21	Germplasm characterisation, conservation etc.	32
22	Taxonomy	32
23	Human Resource Management	28
24	Computer applications	27
25	Stress management	27
26	Gender issues and mainstreaming	27
27	Decision Support System	27
28	Precision farming & related aspects,	26
29	Packaging tools & techniques	25
30	Climate Change & related topics	24
31	Biotechnological tools and approaches	24
32	C-sequestration	24
33	Project management	23
34	Transgenics	23
35	Next Generation Sequencing related aspects	53
36	Nutraceutical & functional foods	22
37	Functional genomics	22
38	GIS applications	21
39	Farming system research and modelling	20
40	Tissue culture	19
41	Molecular biology techniques	18
42	Protected cultivation	17
43	Stem cell technology	17

44	Crop production	17
45	Isolation, identification and mass multiplication of native bio-control agents	16
46	Supply/value chain management	16
47	Water and nutrient use efficiency	15
48	Transgenics	15
49	Econometrics	15
50	Biodiversity Conservation & Management	15
51	Use of HPLC,GC-MS,LCMS, etc.	15
52	Seed quality issues	15
53	MASS	15
54	Organic farming	14
55	Biotic & abiotic stress management	14
56	Hyperspectral remote sensing and thermal imaging	14
57	Database management & digitalization	14
58	Research methodology	14
59	Genetic resource management	14
60	Nutrigenomics	14
61	Computational biology	14
62	Phenotyping related topics	14
63	Writing and communication skill	51
64	Horticulture	13
65	Software applications	13
66	PHT	13
67	Allele mining	13
68	Modelling and climate change-Advances	12
69	Entrepreneurship development	12
70	Breeding Techniques	12
71	Biosafety issues	12
72	Gene expression regulation and silencing	12
73	SNP genotyping	12
74	PME management	19
75	Scientific writing and editing	11
76	ICT applications	11
77	Double haploid production	11
78	Scientific writing and editing	11
79	Haploid related topics	11
80	Electron Microscopy	11
81	Water management in crops-advances	11
82	Soil & Water Conservation and Watershed Management	11
83	Advanced Soil Survey Techniques	11
84	Microscopy techniques	10
85	High throughput analysis	10
86	Transcriptomics	10

87	Epidemiology and disease surveillance	10
88	Biosensor applications	10
89	Extension methodologies	10
90	Web page development	10
91	Knowledge management	9
92	Mass spectrometry techniques	9
93	Extension methodologies	9
94	CAD	9
95	FMS/MIS	8
96	DNA Barcoding and fingerprinting	8
97	Fermentation technology	8
98	PME management	8
99	Disease Forecasting	8
100	Chemical ecology related aspects	8
101	Root architecture related topics	8
102	Entrepreneurship development	8
103	Genome Wide Association Studies (GWAS)	8
104	Animal disease related topics	8
105	Sensor technology-Design and development	7
106	Omics	7
107	Writing case studies	7
108	Diagnostic Techniques and Tools	7
109	Environmental impact assessment	7
110	Cage & pen culture	7
111	Livestock production and management	7
112	Micro array techniques	7
113	Dairy management -Production and processing	7
114	Livestock production and management	7
115	Advances in toxicology	6
116	Recent advances in determination of soil contaminants	6
117	Biopesticides	6
118	Artificial neural network	6
119	Association mapping	6
120	RNA sequencing data analysis	6
121	Identification of insects pest	6
122	Fruit Breeding	6
123	Use of CRISPR/CAS technology for genome editing in plants	6
124	Biomass energy for future	6
125	Packaging tools & techniques	5
126	Computer applications in agriculture	5
127	Livestock production and management	5
128	Working knowledge in Hindi	5
129	SCUBA diving	5
130	Use of advance instruments in nanotechnology	5

131	Carbon Footprints in Agriculture	5
132	GHG emission and estimation	5
133	Biodiversity Conservation & Management	5
134	Drought tolerance	5
135	Fish taxonomy	5
136	Ecological Modelling	5
		2997